2-633-249-**31**(1)

SONY

CD/DVD Player

Operating Instructions

DVP-NS9100ES

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WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.
The mains lead must only be changed at a qualified service shop.

To prevent fire, do not cover the ventilation of the apparatus with news papers, table-cloths, curtains, etc. And don't place lighted candles on the apparatus.
To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD player is harmful to eyes, do not attempt to disassemble the cabinet.
Refer servicing to qualified personnel only.

Notice for customers in the United Kingdom and Republic of Ireland

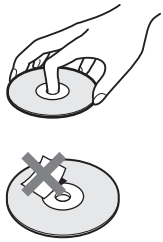
A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience.
Should the fuse in the plug supplied need to be replaced, a same rating fuse approved by ASTA or BSI to BS1362, (i.e., marked with ⟨ASTA⟩ or ⟨BSI⟩ mark) must be used.
If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Notes About the Discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature may rise considerably inside the car.
- After playing, store the disc in its case.
- Clean the disc with a cleaning cloth.
  Wipe the disc from the centre out.

- Do not use solvents such as benzine, thinner, commercially available cleaners, or anti-static spray intended for vinyl LPs.
- If you have printed the disc's label, dry the label before playing.

Precautions

On safety

- Caution – The use of optical instruments with this product will increase eye hazard.
- To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the apparatus.
- Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet. To disconnect the mains lead, grasp the plug itself; never pull the cord.
- Should the mains lead need to be changed, have it done at a qualified service shop only.

On placement

- Place the player in a location with adequate ventilation to prevent heat build-up in the player.
- Do not place the player on a soft surface such as a rug that might block the ventilation holes.
- Do not place the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust, or mechanical shock.
- Do not install the player in an inclined position. It is designed to be operated in a horizontal position only.
- Keep the player away from equipment with strong magnets, such as microwave ovens, or large loudspeakers.
- Do not place heavy objects on the player.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the player. Should this occur, the player may not operate properly. In this case, remove the disc and leave the player turned on for about half an hour until the moisture evaporates.
- When you move the player, take out any discs. If you don't, the disc may be damaged.

On disconnecting the AC power cord

Since this player may read and store the disc information at any time, always set the player to standby mode before unplugging the AC power cord to ensure that the data is stored properly.

On adjusting volume

Do not turn up the volume while listening to a section with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level section is played.

On cleaning

Clean the cabinet, panel, and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

On cleaning discs

Do not use a commercially available cleaning disc. It may cause a malfunction.

IMPORTANT NOTICE

Caution: This player is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Plasma Display Panel televisions and projection televisions are especially susceptible to this.

On transporting the player

Before transporting the player, follow the procedure below to return the internal mechanisms to their original positions.

1. Remove the disc from the disc tray.
2. Press ⏏ to close the disc tray.
   Make sure that "NO DISC" appears on the front panel display.
3. Wait for 10 seconds, then press **I**/⏻ to turn off the player.
   The player enters standby mode.
4. Disconnect the mains lead.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

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About This Manual

- Instructions in this manual describe the controls on the remote. You can also use the controls on the player if they have the same or similar names as those on the remote.
- "DVD" may be used as a general term for DVD VIDEOs, DVD-Rs, DVD-RWs, DVD+Rs, and DVD+RWs.
- The meaning of the icons used in this manual is described below:

Icons	Meanings
DVD-V	Functions available for DVD VIDEOs and DVD+Rs/ DVD+RWs or DVD-Rs/DVD-RWs in video mode
DVD-RW	Functions available for DVD-RWs in VR (Video Recording) mode
VIDEO CD	Functions available for VIDEO CDs (including Super VCDs or CD-Rs/CD-RWs in video CD format or Super VCD format)
Super Audio CD	Functions are available for Super Audio CDs
CD	Functions available for music CDs or CD-Rs/CD-RWs in music CD format
DATA-CD	Functions available for DATA CDs (CD-ROMs/CD-Rs/CD-RWs containing MP3* audio tracks and JPEG image files)

* MP3 (MPEG1 Audio Layer 3) is a standard format defined by ISO (International Standards Organization)/MPEG which compresses audio data. The sampling frequencies of playable MP3 files are 44.1 kHz and 48 kHz.

This Player Can Play the Following Discs

Format of discs	
DVD VIDEO (page 89)	DVD VIDEO
DVD-RW (page 89)	DVD RW
Super Audio CD (page 91)	SUPER AUDIO CD
VIDEO CD	COMPACT disc DIGITAL VIDEO
Music CD	COMPACT disc DIGITAL AUDIO

"DVD VIDEO" and "DVD-RW" are trademarks.

Note about CDs

The player can play CD-ROMs/CD-Rs/CD-RWs recorded in the following formats:
– music CD format
– video CD format
– MP3 audio tracks and JPEG image files of format conforming to ISO 9660* Level 1/ Level 2, or its extended format, Joliet
– KODAK Picture CD format

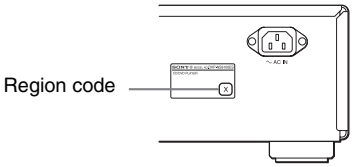
* A logical format of files and folders on CD-ROMs, defined by ISO (International Organization for Standardization).

Region code

Your player has a region code printed on the back of the unit and will only play DVD VIDEOs (playback only) labeled with identical region codes. This system is used to protect copyrights.

DVD VIDEOs labeled will also play on this player.

If you try to play any other DVD VIDEO, the message “Playback prohibited by area limitations.” will appear on the TV screen. Depending on the DVD VIDEO, no region code indication may be labeled even though playing the DVD VIDEO is prohibited by area restrictions.



Example of discs that the player cannot play

The player cannot play the following discs:
- CD-ROMs/CD-Rs/CD-RWs other than those recorded in the format listed on the previous page.
- Data part of CD-Extras
- DVD-ROMs
- DVD Audios

Also, the player cannot play the following discs:
- A DVD VIDEO with a different region code.
- A disc recorded in a colour system other than PAL or NTSC, such as SECAM (this player conforms to the PAL/NTSC colour system).
- A disc that has a non-standard shape (e.g., card, heart).
- A disc with paper or stickers on it.
- A disc that has the adhesive of cellophane tape or a sticker still left on it.
- DVD-Rs recorded in VR mode (Video Recording format)
- Copy-Once programmes recorded on CPRM* compatible DVD-Rs.

* CPRM; Content Protection for Recordable Media is a coding technology that protects copyright for Copy-Once programmes.

Notes

- **Notes about DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs or CD-Rs/CD-RWs**
  Some DVD+RWs/DVD+Rs, DVD-RWs/DVD-Rs or CD-Rs/CD-RWs cannot be played on this player due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.
  The disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device. Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs created in Packet Write format cannot be played.
- **Music discs encoded with copyright protection technologies**
  This product is designed to playback discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Note on playback operations of DVDs and VIDEO CDs

Some playback operations of DVDs and VIDEO CDs may be intentionally set by software producers. Since this player plays DVDs and VIDEO CDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VIDEO CDs.

Copyrights

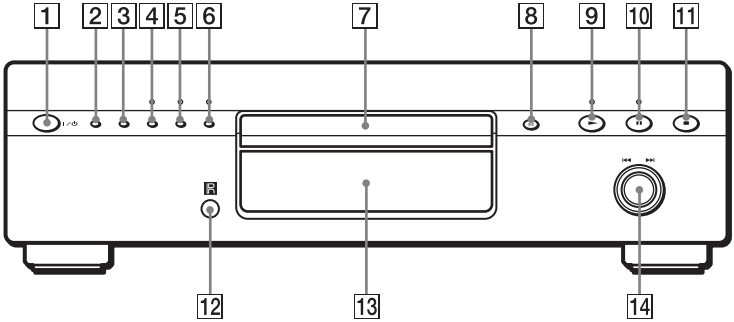
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Index to Parts and Controls

For more information, see the pages in parentheses.

Front panel

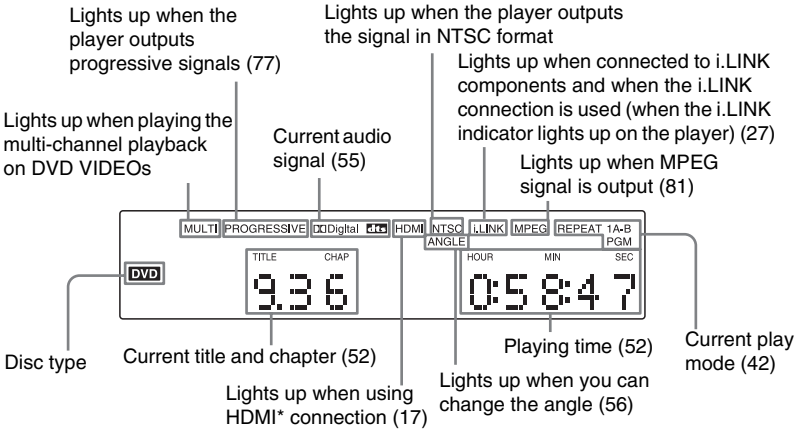
The brightness of the indicators is linked to the dimmer function (page 10). When you select "DARK," "AUTO DARK," or "FL OFF" by pressing DIMMER, the indicators become dark.



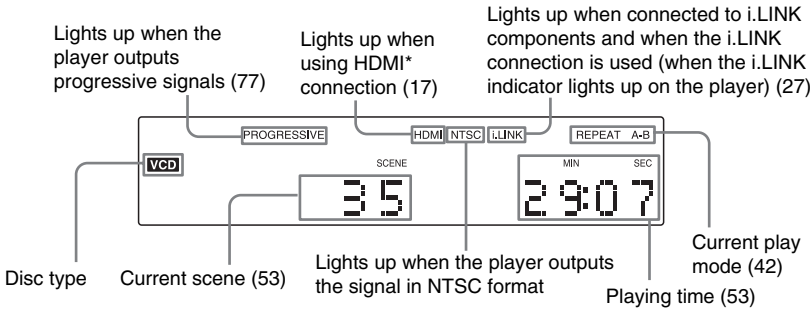
1 I/⏻ (on/standby) button (36)
2 MULTI/2CH button (40)
3 SA-CD (Super Audio CD) /CD button (40)
4 DIMMER button/indicator (10)
5 VIDEO OFF button/indicator (36)
6 i.LINK button/indicator (27)
7 Disc tray (36)
8 ⏏ (open/close) button (36)
9 ► (play) button/indicator (36)
10 ❚❚ (pause) button/indicator (37)
11 ■ (stop) button (37)
12 R (remote sensor) (15)
13 Front panel display (9)
14 I◄◄/►►I (previous/next)/PUSH ENTER dial (37)

Front panel display

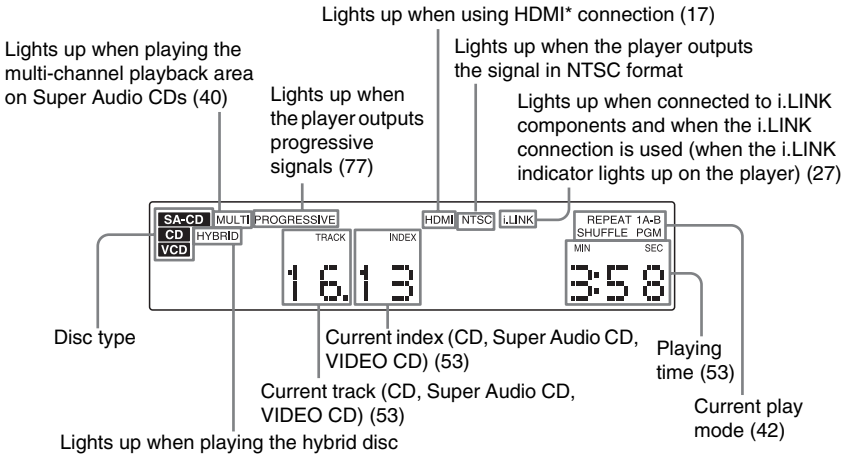
When playing back a DVD VIDEO/DVD-RW


Lights up when the player outputs progressive signals (77)
Lights up when the player outputs the signal in NTSC format
Lights up when connected to i.LINK components and when the i.LINK connection is used (when the i.LINK indicator lights up on the player) (27)
Lights up when playing the multi-channel playback on DVD VIDEOs
Current audio signal (55)
Lights up when MPEG signal is output (81)
MULTI
PROGRESSIVE
HDMI
NTSC
i.LINK
MPEG
REPEAT 1A-B
PGM
ANGLE
TITLE
CHAP
HOUR
MIN
SEC
DVD
Disc type
Current title and chapter (52)
Lights up when using HDMI* connection (17)
Lights up when you can change the angle (56)
Playing time (52)
Current play mode (42)

When playing back a VIDEO CD with Playback Control (PBC) (41)

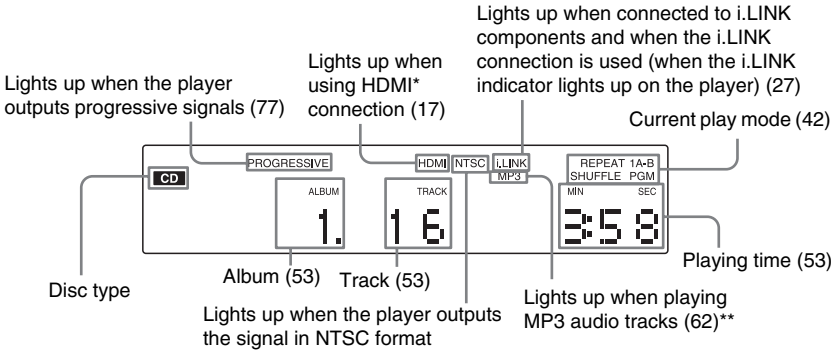

Lights up when the player outputs progressive signals (77)
Lights up when using HDMI* connection (17)
Lights up when connected to i.LINK components and when the i.LINK connection is used (when the i.LINK indicator lights up on the player) (27)
PROGRESSIVE
HDMI
NTSC
i.LINK
REPEAT A-B
VCD
SCENE
MIN
SEC
Disc type
Current scene (53)
Lights up when the player outputs the signal in NTSC format
Playing time (53)
Current play mode (42)

When playing back a CD, Super Audio CD, or VIDEO CD (without PBC)


Lights up when using HDMI* connection (17)
Lights up when playing the multi-channel playback area on Super Audio CDs (40)
Lights up when the player outputs the signal in NTSC format
Lights up when the player outputs progressive signals (77)
Lights up when connected to i.LINK components and when the i.LINK connection is used (when the i.LINK indicator lights up on the player) (27)
SA-CD
CD
VCD
MULTI
HYBRID
PROGRESSIVE
HDMI
NTSC
i.LINK
REPEAT 1A-B
SHUFFLE PGM
TRACK
INDEX
MIN
SEC
Disc type
Current index (CD, Super Audio CD, VIDEO CD) (53)
Playing time (53)
Current track (CD, Super Audio CD, VIDEO CD) (53)
Current play mode (42)
Lights up when playing the hybrid disc

→ *continued*

When playing back a DATA CD (MP3 audio)



* This player is based on version 1.1 of High-Definition Multimedia Interface Specifications.

This DVD player incorporates High-Definition Multimedia Interface (HDMI™) technology.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

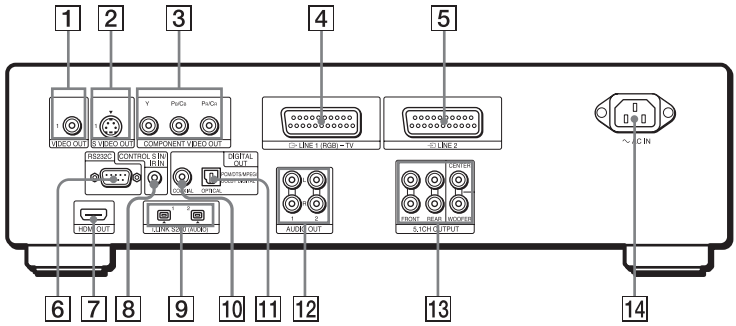
** When playing JPEG image files, "JPEG" appears on the display.

To adjust the lighting of the front panel display (DIMMER function)

Press DIMMER on the player repeatedly to select an item.

- BRIGHT: makes the lighting bright.
- DARK: makes the lighting dark.
- AUTO DARK: makes the front panel display dark if you do not operate the player or remote for a short while.
- FL OFF: turns off the lighting.

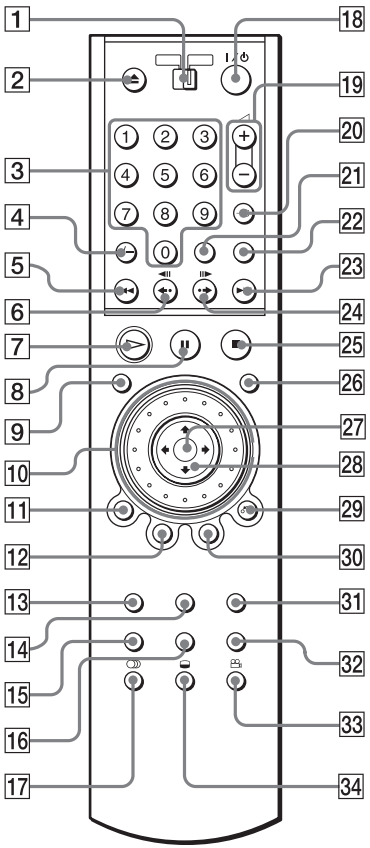
Rear panel



1 VIDEO OUT jack (17)
2 S VIDEO OUT jack (17)
3 COMPONENT VIDEO OUT (Y, PB/CB, PR/CR) jacks (17)
4 LINE 1 (RGB)-TV jack (17)
5 LINE 2 jack (17)
6 RS232C jack*
7 HDMI OUT (high-definition multimedia interface out) jack (17)
8 CONTROL S IN/IR IN jack (17)
9 i.LINK S200 (AUDIO) jacks (27)
10 DIGITAL OUT (COAXIAL) jack (23) (24) (25)
11 DIGITAL OUT (OPTICAL) jack (23) (24) (25)
12 AUDIO OUT L/R 1/2 jacks (22) (23) (24)
13 5.1CH OUTPUT jacks (25)
14 AC IN terminal (32)

* Used for maintenance and service.

Remote



1 TV/DVD switch (72)
2 ⏏ (open/close) button (37)
3 Number buttons (39)
The number 5 button has a tactile dot.*
4 CLEAR/-/-- (ten's digit) button (44) (72)
5 ⏮ (previous) button (37)
6 ◀II ←• button (37) (48)
7 ▷ (play) button (36)
The ▷ button has a tactile dot.*
8 II (pause) button (37)
9 PICTURE NAVI (picture navigation) button (50)
10 Click shuttle (47)
11 DISPLAY button (12)
12 TOP MENU button (39)
13 SA-CD MULTI/2CH (Super Audio CD multi/2 channel) button (40)
14 SA-CD/CD (Super Audio CD/CD) button (41)
15 ZOOM button (64)
16 REPEAT button (45)
17 (audio) button (54)
18 I/⏻ (on/standby) button (36)
19 (volume) +/– buttons (72)
The + button has a tactile dot.*
20 TV/VIDEO/TIME/TEXT button (51) (72)
21 ENTER button (72)
22 WIDE MODE/i.LINK button (72)
23 ⏭ (next) button (37)
24 •→ II▶ button (37) (48)
25 ■ (stop) button (37)
26 JOG button (48)
27 ENTER button (32)
28 ←/↑/↓/→ buttons (39)
29 RETURN button (37) (41)
30 MENU button (39)
31 VIDEO OFF button (36)
32 VIDEO CONTROL button (57)
33 (angle) button (56)
34 (subtitle) button (56)

* Use the tactile dot as a reference when operating the player.

Guide to the Control Menu Display

Use the Control Menu to select a function and to view related information. Press DISPLAY repeatedly to turn on or change the Control Menu display as follows:

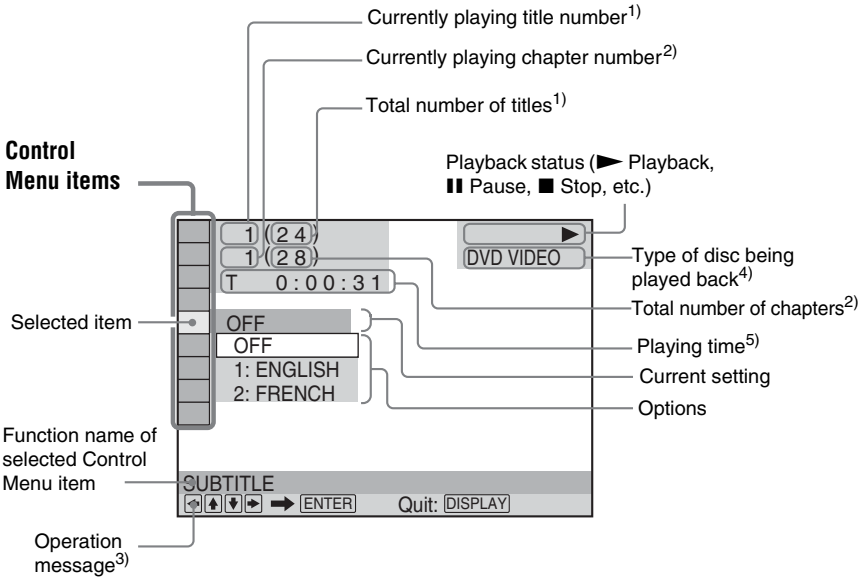
Control Menu display 1
↓
Control Menu display 2*
↓
Control Menu display off

* The Control Menu display 2 may not be displayed depending on the disc type.

Control Menu

The Control Menu display 1 and 2 will show different items depending on the disc type. For details, see the pages in parentheses.

Example: Control Menu display 1 when playing a DVD VIDEO



1) Displays the scene number for VIDEO CDs (PBC is on), track number for VIDEO CDs/Super Audio CDs/CDs, album number for DATA CDs.
2) Displays the index number for VIDEO CDs/Super Audio CDs/CDs, MP3 audio track number or JPEG image file number for DATA CDs (JPEG image file number is displayed in the Control Menu display 2).
3) Displays the DISC MEMO or CD Text when the disc contains title information.
4) Displays Super VCD as "SVCD."
5) Displays the date for JPEG files (The date is displayed in the Control Menu display 2).

List of Control Menu items

Item	Item Name, Function, Relevant Disc Type
	TITLE (page 48)/SCENE (page 49)/TRACK (page 48) Selects the title, scene, or track to be played. DVD-V DVD-RW VIDEO CD
	CHAPTER (page 48)/INDEX (page 48) Selects the chapter or index to be played. DVD-V DVD-RW VIDEO CD
	ALBUM (page 49) Selects the album to be played. DATA-CD
	TRACK (page 48) Selects the track to be played. CD DATA-CD SuperAudioCD
	INDEX (page 49) Selects the index to be played. CD SuperAudioCD
	FILE (page 49) Selects the JPEG image file to be played. DATA-CD *
	DATE (page 64) Displays the date the picture was taken by a digital camera. DATA-CD *
	ORIGINAL/PLAY LIST (page 39) Selects the type of titles (DVD-RW) to be played, the ORIGINAL one, or an edited PLAY LIST. DVD-RW
	TIME/MEMO (page 48) Checks the elapsed time and the remaining playback time. Use to input the time code when searching for a scene or music. Displays the Disc Memo you entered (page 67). DVD-V DVD-RW VIDEO CD CD SuperAudioCD
	TIME/TEXT (page 48) Checks the elapsed time and the remaining playback time. Use to input the time code when searching for a scene or music. Displays the DVD/Super Audio CD/CD text, or the DATA CD's track name and volume label (page 51). DVD-V DVD-RW VIDEO CD CD DATA-CD SuperAudioCD
	MULTI/2CH (page 40) Selects the playback area on Super Audio CDs when available. SuperAudioCD
	AUDIO (page 54) Changes the audio setting. DVD-V DVD-RW VIDEO CD CD DATA-CD
	SUBTITLE (page 56) Displays the subtitles. Changes the subtitle language. DVD-V DVD-RW
	ANGLE (page 56) Changes the angle. DVD-V
	ADVANCED (page 53) Displays the information (bit rate) of the disc currently playing. DVD-V DVD-RW
	PARENTAL CONTROL (page 68) Set to prohibit playback on this player. DVD-V DVD-RW VIDEO CD CD DATA-CD SuperAudioCD

→ *continued*

	SETUP (page 74) QUICK Setup Use Quick Setup to choose the desired language of the on-screen display, the aspect ratio of the TV, the audio output signal, and the size of the speakers you are using. CUSTOM Setup In addition to the Quick Setup setting, you can adjust various other settings. RESET Returns the settings in "SETUP" to the default setting. SLEEP You can set the system to turn off after a certain time, so that you can fall asleep to music. DVD-V DVD-RW VIDEO CD CD DATA-CD SuperAudioCD
	ALL ALBUMS/ONE ALBUM (page 43) Selects ALL ALBUMS or ONE ALBUM mode. DATA-CD
	PROGRAM (page 43) Selects the title, chapter, or track to play in the order you want. DVD-V VIDEO CD CD DATA-CD** SuperAudioCD
	SHUFFLE (page 44) Plays the album or track in random order. CD DATA-CD** SuperAudioCD
	REPEAT (page 45) Plays the entire disc (all titles/all tracks/all albums) repeatedly or one title/chapter/track/album repeatedly. DVD-V DVD-RW VIDEO CD CD DATA-CD SuperAudioCD
	A-B REPEAT (page 46) Specifies the parts you want to play repeatedly. DVD-V DVD-RW VIDEO CD CD DATA-CD** SuperAudioCD
	VIDEO CONTROL (page 57) Adjusts the video signal from the player. You can select the picture quality that best suits the programme you are watching. DVD-V DVD-RW VIDEO CD DATA-CD*
	INTERVAL (page 66) Specifies the duration for which the slides are displayed on the screen. DATA-CD*
	EFFECT (page 66) Selects the effects to be used for changing slides during a slide show. DATA-CD*
	MODE (MP3, JPEG) (page 65) Selects the data type; MP3 audio track (AUDIO) or JPEG image file (IMAGE) to be played when playing a DATA CD. DATA-CD

* JPEG only
** MP3 only

Hint

The Control Menu icon indicator lights up in green when you select any item except "OFF." ("PROGRAM," "SHUFFLE," "REPEAT," and "A-B REPEAT" only).
The other Control Menu icon indicator lights up in green when:
– "ANGLE": when the angles can be changed.
– "VIDEO CONTROL": when any setting other than "STANDARD" is selected.
– "ORIGINAL/PLAYLIST": when "PLAYLIST" is selected.
– "MULTI/2CH": when "MULTI" is selected.

Hooking Up the Player

Follow steps 1 to 6 to hook up and adjust the settings of the player.

Notes

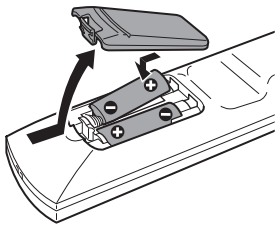
- Plug cords securely to prevent unwanted noise.
- Refer to the instructions supplied with the components to be connected.
- You cannot connect this player to a TV that does not have a video input jack.
- Be sure to disconnect the power of each component before connecting.

Step 1: Unpacking

Check that you have the following items:
- Audio/video cord (pinplug × 3 ⟷ pinplug × 3) (1)
- Remote commander (remote) (1)
- R6 (size AA) batteries (2)
- Mains lead (1)

Step 2: Preparing the Remote

You can control the player using the supplied remote. Insert two R6 (size AA) batteries by matching the ⊕ and ⊖ ends on the batteries to the markings inside the compartment. When using the remote, point it at the remote sensor ▣ on the player.



Notes

- Do not leave the remote in an extremely hot or humid place.
- Do not drop any foreign object into the remote casing, particularly when replacing the batteries.
- Do not expose the remote sensor to direct sunlight or lighting apparatus. Doing so may cause a malfunction.
- If you do not use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion.

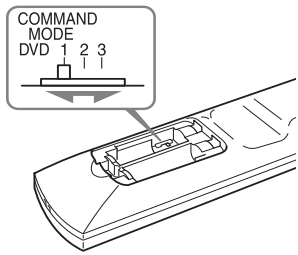
→ *continued*

When you have more than one Sony DVD player

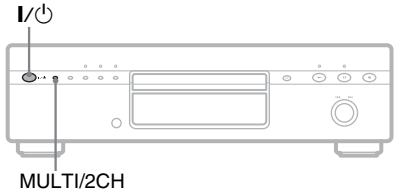
If the supplied remote interferes with your other Sony DVD player, change the command mode setting for this player and the supplied remote to one that differs from the other Sony DVD player.
The default command mode setting for this player and the supplied remote is DVD 1.

To change the setting for the remote

1 Slide the COMMAND MODE switch on the remote to select the command mode (DVD 1, DVD 2, or DVD 3) so that the setting for the remote differs from that of the other DVD players.
For example, if the other DVD players respond to the default command mode setting for the supplied remote (DVD 1), set the remote to DVD 2 or DVD 3.



To change the setting for the player



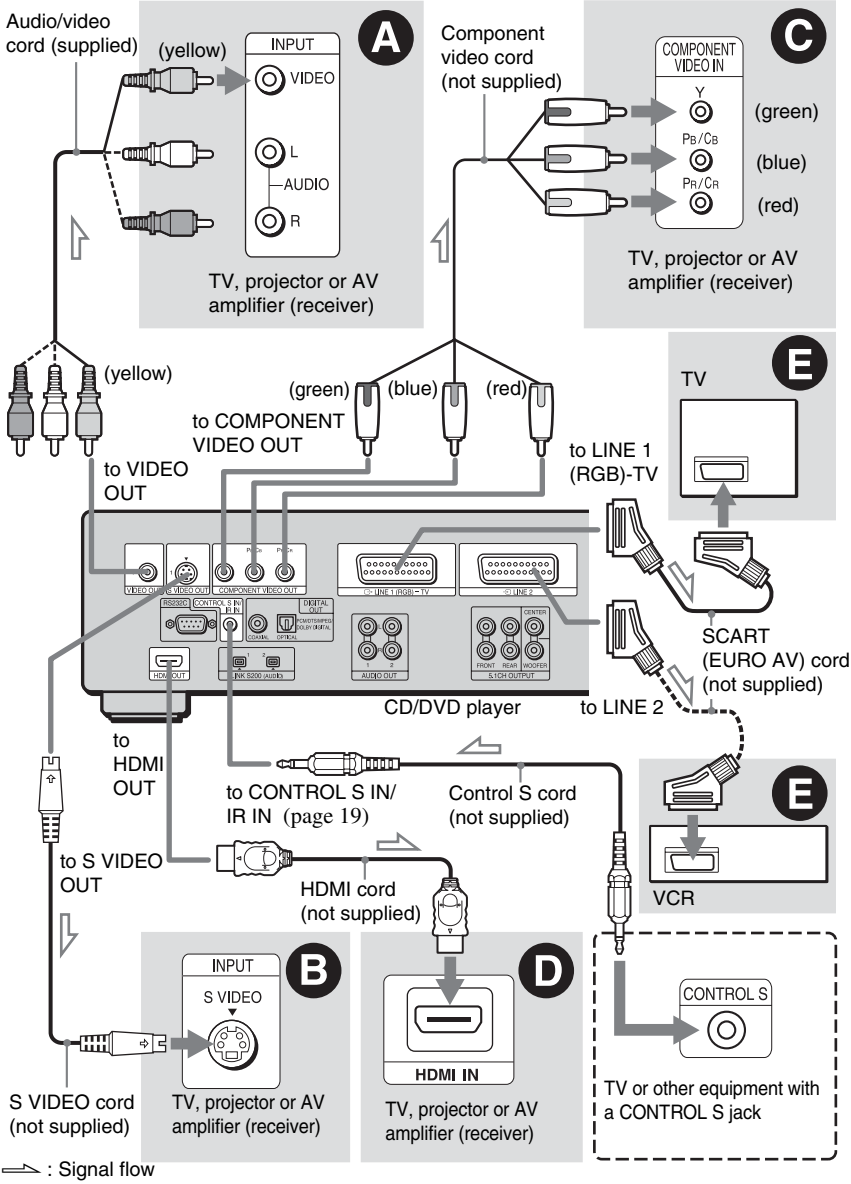
1 Press I/⏻ to turn off the system.

2 Hold down MULTI/2CH and press I/⏻ on the player.
The command mode appears on the front panel display.

3 Repeat steps 1 and 2 until the displayed command mode matches that of the supplied remote.

Step 3: Connecting the Video/HDMI Cords

Connect this player to your TV monitor, projector, or AV amplifier (receiver) using a video cord. Select one of the patterns A through E, according to the input jack on your TV monitor, projector, or AV amplifier (receiver). In order to view progressive signal pictures with a compatible TV, projector, or monitor, you must use pattern C. Select pattern D when connecting to a TV, projector, or AV amplifier (receiver) equipped with HDMI input.



→ continued

Ⓐ If you are connecting to a video input jack

Connect the yellow plug of the audio/video cord (supplied) to the yellow (video) jacks. You will enjoy standard quality images.

Use the red and white plugs to connect to the audio input jacks (page 22). (Do this if you are connecting to a TV only.)

Ⓑ If you are connecting to an S VIDEO input jack

Connect an S VIDEO cord (not supplied). You will enjoy high quality images.

Ⓒ If you are connecting to a monitor, projector, or AV amplifier (receiver) having component video input jacks (Y, P_B/C_B, P_R/C_R)

Connect the component via the COMPONENT VIDEO OUT jacks using a component video cord (not supplied) or three video cords (not supplied) of the same kind and length. You will enjoy accurate colour reproduction and high quality images. If your TV accepts progressive 525/625p format signals, you must use this connection and set "COMPONENT OUT" in "SCREEN SETUP" to "PROGRESSIVE" (page 77).

Ⓓ If you are connecting to an HDMI/DVI input jack

Use a certified HDMI cord (not supplied) to enjoy high quality digital picture and sound through the HDMI OUT jack.
Note that Super Audio CD sound is not output from the HDMI OUT jack.

Ⓔ If you are connecting to a SCART (EURO AV) input jack

Connect the SCART (EURO AV) cord (not supplied). Be sure to make the connections firmly to avoid hum and noise. When you connect using the SCART (EURO AV) cord, check that the TV conforms to S video or RGB signals. Refer to the operating instructions supplied with the TV to be connected. Also, when you set "LINE" to "S VIDEO" or "RGB" under "SCREEN SETUP" in the Setup Display (page 77), use a SCART (EURO AV) cord that conforms to each signal.

If you are connecting to a VCR

Connect your VCR to the LINE 2 jack on the player. The VCR can record the signal only from your TV.

To connect to a TV with DVI input

Use an HDMI-DVI converter cord (not supplied). The DVI jack will not accept any audio signals, so you have to use another audio connection in addition to this connection (page 20). Furthermore, you cannot connect the HDMI OUT jack to DVI jacks that are not HDCP compliant (e.g., DVI jacks on PC displays).

To change the aspect ratio for the connected TV

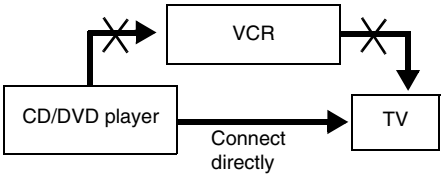
Depending on the disc and the TV type (standard 4:3 screen TV or wide screen TV), the image may not fit the TV screen. If this happens, change the aspect ratio (page 76).

Hint

If your TV has a CONTROL S jack, you can control the player by operating the remote toward the TV. This feature is convenient when you placed the player and the TV away from each other. After connecting the player with other components according to the above Ⓐ, Ⓑ, Ⓒ, or Ⓓ, connect the TV via the CONTROL S IN/IR IN using a Control S cord (not supplied). Refer to the instructions supplied with the TV to be connected.

Notes

- Connect the player directly to the TV. If you pass the player signals via the VCR, you may not receive a clear image on the TV screen.



- Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 480 progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 525p DVD player, please contact our customer service centre.
- When connecting to a progressive TV, it is recommended that you use only pattern Ⓒ. If you connect to your TV using both Ⓒ and Ⓔ, a special control signal transmitted via the SCART (EURO AV) cable may cause the signal to be switched to the SCART (EURO AV) jack.
- If you cannot view the pictures from a VCR through this player which is connected to a TV with RGB component jacks, set →1 to (Audio/Video) on your TV. When you select → (RGB), the TV cannot receive the signal from the VCR.
- If you want to use your VCR's SmartLink function, connect the VCR directly to your TV's SCART (EURO AV) jack and connect the player to the TV with another jack.
- The SmartLink function may not work properly if your VCR is connected to your TV via the SCART (EURO AV) jacks on the player.
- When you connect the player to your TV via the SCART (EURO AV) jacks, the TV's input source is set to the player automatically when you start playback or press any button except for I/⏻. In this case, press TV/DVD on the remote to return the input to the TV.
- If you are connecting to an HDMI jack, use a Sony HDMI cord (not supplied).

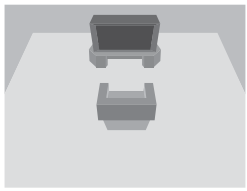
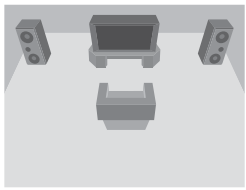
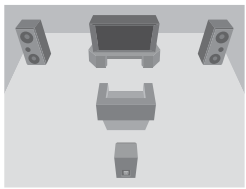
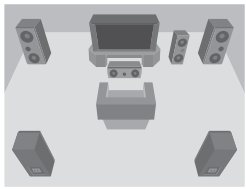
When you play a disc recorded in the NTSC colour system, the player outputs the video signal or the Setup Display etc. in the NTSC colour system and the picture may not appear on the PAL colour system televisions. In this case, open the tray and remove the disc.

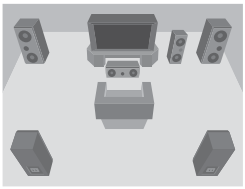
Step 4: Connecting the Audio Cords

Refer to the chart below to select the connection that best suits your system. Be sure to also read the instructions for the components you wish to connect.

Select a connection

Select one of the following connections, A through E.

Components to be connected	Connection	Your setup (example)
TV	A (page 22)	
Stereo amplifier (receiver) and two speakers **MD deck/DAT deck** • Surround effects: – None	B (page 23)	
AV amplifier (receiver) having a Dolby* Surround (Pro Logic) decoder and 3 to 6 speakers • Surround effects: – Dolby Surround (Pro Logic) (page 88)	C (page 24)	
AV amplifier (receiver) with 5.1 ch input jacks and 4 to 6 speakers • Surround effects: – Dolby Digital (5.1 ch) (page 88) – DTS (5.1 ch) (page 88) – Super Audio CD Multi channel (page 91) or **AV amplifier (receiver) with digital input jacks having a Dolby or DTS** decoder and 6 speakers** • Surround effects: – Dolby Digital (5.1 ch) (page 88) – DTS (5.1 ch) (page 88)	D (page 25)	

Components to be connected	Connection	Your setup (example)
i.LINK components (TA-DA9000ES/ STR-DA7100ES only)	E (page 27)	

Hint

If you have an AV amplifier that conforms to the 96 kHz sampling frequency, use connection D.

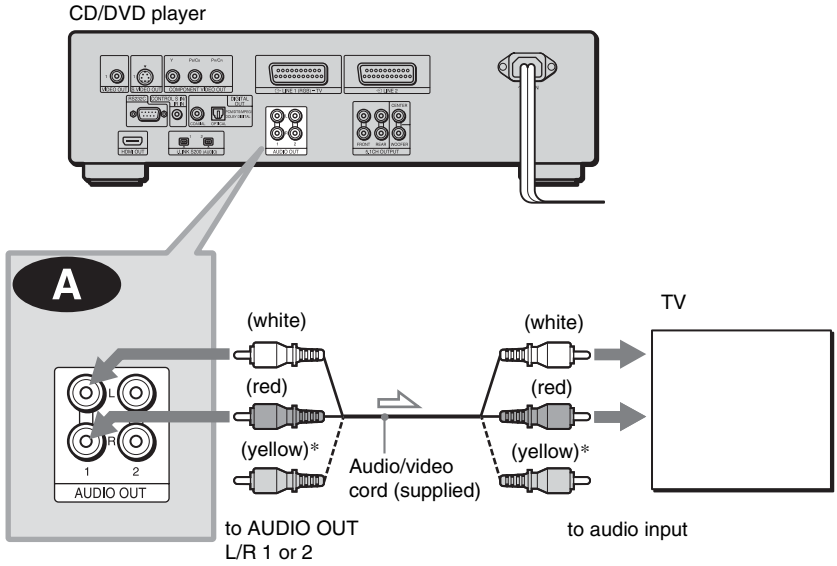
* Manufactured under license from Dolby Laboratories. “Dolby,” “Pro Logic,” and the double-D symbol are trademarks of Dolby Laboratories.

** “DTS” and “DTS Digital Surround” are registered trademarks of Digital Theater Systems, Inc.

→ *continued*

A Connecting to your TV

This connection will use your TV's speakers for sound. If you use the SCART (EURO AV) cord in pattern E of "Step 3: Connecting the Video/HDMI Cords" (page 17), you do not have to connect audio cords to your TV.



: Signal flow

* The yellow plug is used for video signals (page 17).

Hint

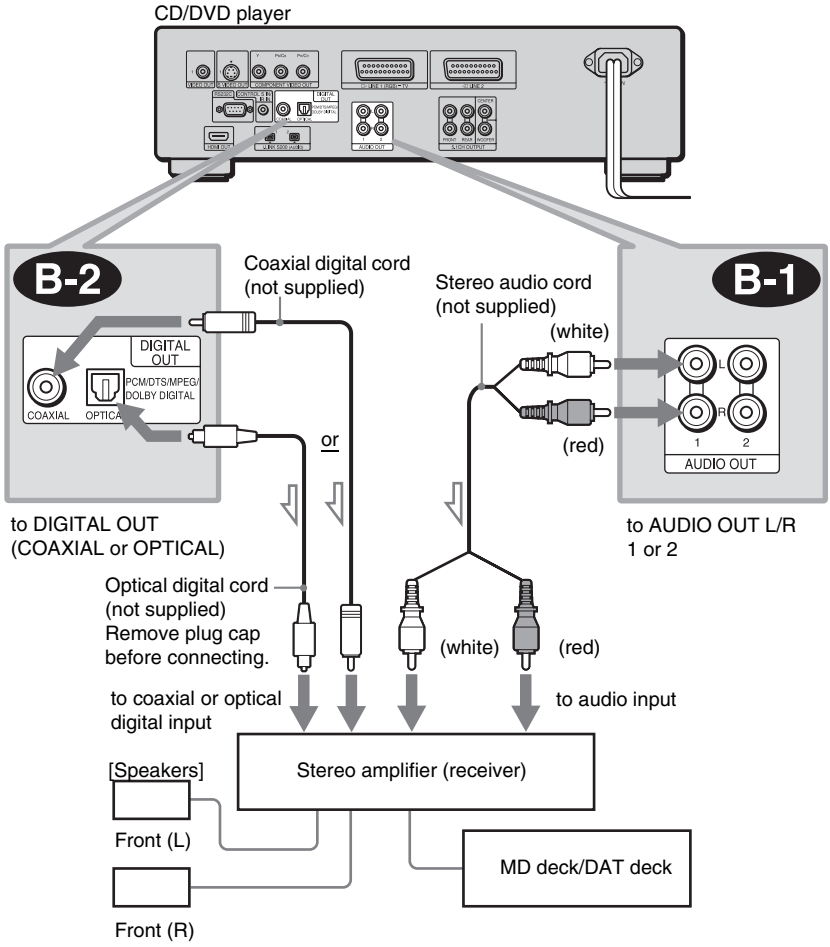
When connecting to a monaural TV, use a stereo-mono conversion cord (not supplied). Connect the AUDIO OUT L/R 1 or 2 jacks to the TV's audio input jack.

Note

When the i.LINK indicator lights up, audio signals are output from the i.LINK S200 AUDIO jack, but not from any of the other jacks (including HDMI OUT).

B Connecting to a stereo amplifier (receiver) and 2 speakers/Connecting to an MD deck or DAT deck

If the stereo amplifier (receiver) has audio input jacks L and R only, use B-1. If the amplifier (receiver) has a digital input jack, or when connecting to an MD deck or DAT deck, use B-2. In this case, you can also connect the player directly to the MD deck or DAT deck without using your stereo amplifier (receiver).



Hint

To realize better surround sound effects, make sure that your listening position is in between your speakers.

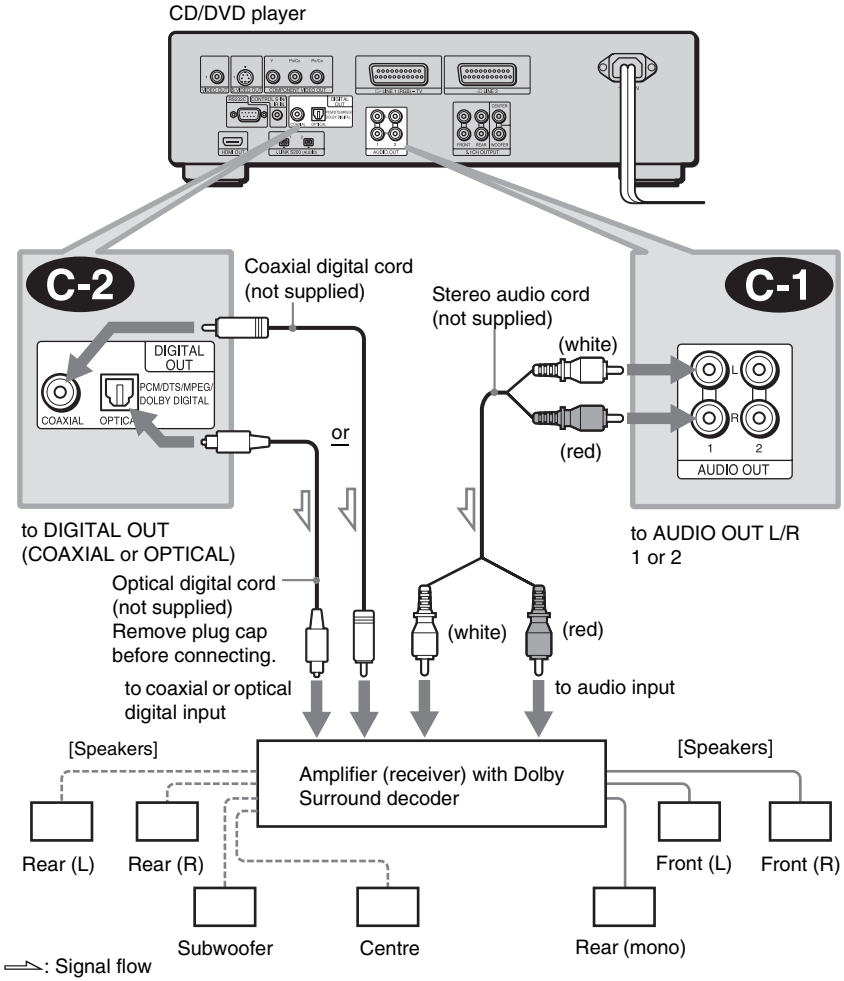
Notes

- Super Audio CD audio signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.
- When the i.LINK indicator lights up, audio signals are output from the i.LINK S200 AUDIO jack, but not from any of the other jacks (including HDMI OUT).

→ continued

C Connecting to an AV amplifier (receiver) having a Dolby Surround (Pro Logic) decoder and 3 to 6 speakers

You can enjoy the Dolby Surround effects only when playing Dolby Surround audio or multi-channel audio (Dolby Digital) discs.
If your amplifier (receiver) has L and R audio input jacks only, use C-1. If your amplifier (receiver) has a digital input jack, use C-2.



Hint

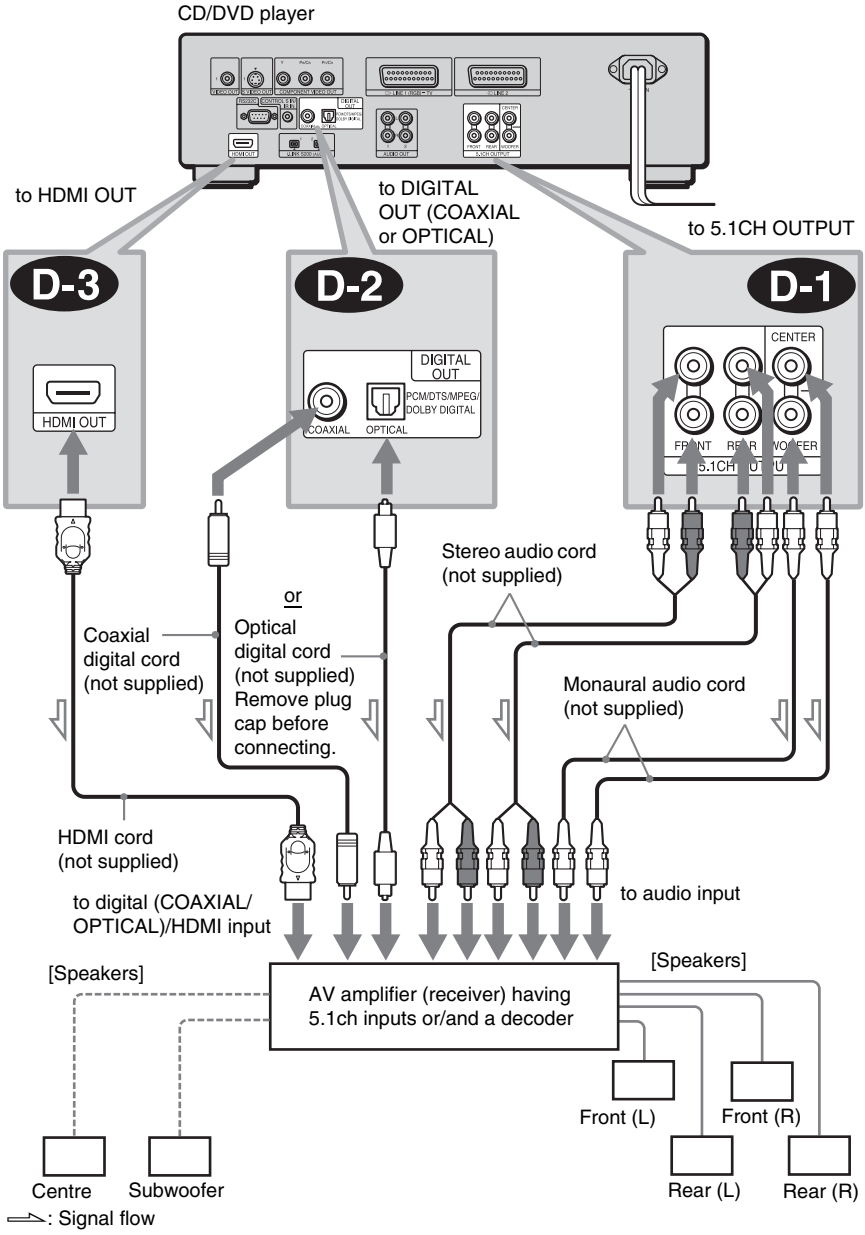
For correct speaker location, refer to the operating instructions of the amplifier (receiver).

Notes

- When connecting 6 speakers, replace the monaural rear speaker with a centre speaker, 2 rear speakers and a subwoofer.
- Super Audio CD audio signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.
- When the i.LINK indicator lights up, audio signals are output from the i.LINK S200 AUDIO jack, but not from any of the other jacks (including HDMI OUT).

D Connecting to an AV amplifier (receiver) with 5.1 ch input jacks and/or a digital input jack and 4 to 6 speakers

If your AV amplifier (receiver) has 5.1 channel inputs, use D-1.
If you want to use the Dolby Digital, or DTS decoder function on your AV amplifier (receiver), connect to its digital jack using D-2 or D-3. With the following connections, you can enjoy a more realistic audio presence in the comfort of your own home.



→ continued

D-1: Connecting to the 5.1ch input jacks

You can enjoy 5.1ch surround sound using the internal Dolby Digital, DTS, or Super Audio CD Multi decoder of this player.

D-2 or D-3: Connecting to a digital jack

This connection will allow you to use the Dolby Digital, or DTS decoder function of your AV amplifier (receiver).

Hints

- For correct speaker placement, refer to the instructions of the connected components.
- To enhance the sound performance:
  - –Use high-performance speakers.
  - –Use front, rear, and centre speakers of the same size and performance.
  - –Place the subwoofer between the left and right front speakers.

Notes

- When the i.LINK indicator lights up, audio signals are output from the i.LINK S200 AUDIO jack, but not from any of the other jacks (including HDMI OUT). Video signals are output from the HDMI OUT jack.

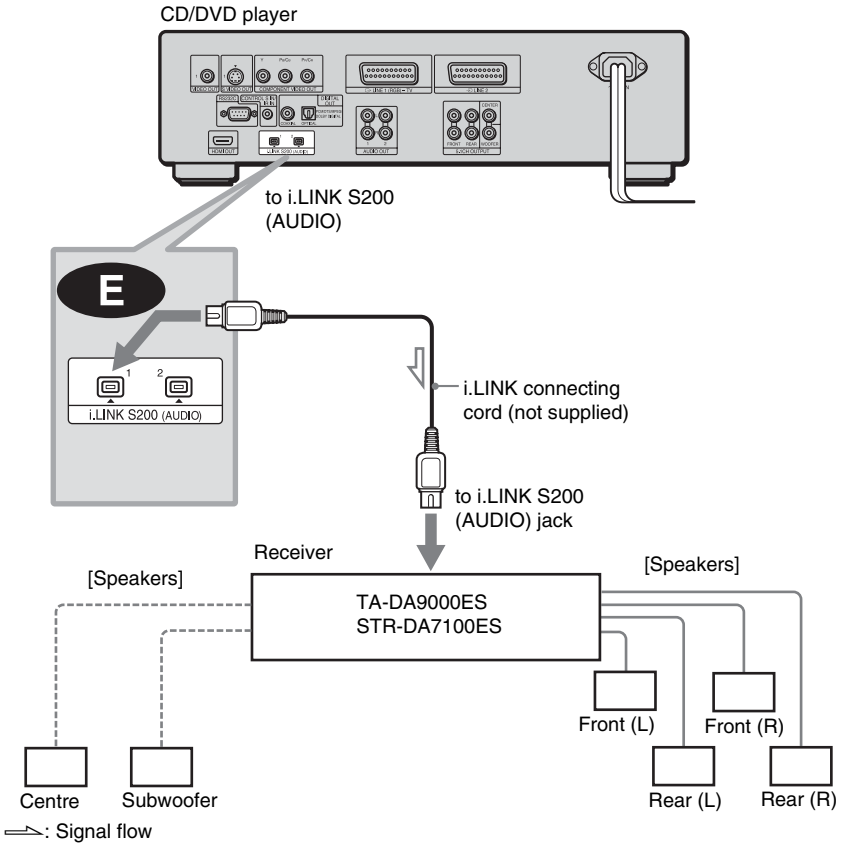
For connection D-2 or D-3

- After you have completed the connection, be sure to set “DOLBY DIGITAL” to “DOLBY DIGITAL” and “DTS” to “DTS” in Quick Setup (page 32).
- When you connect an amplifier (receiver) that conforms to the 96 kHz sampling frequency, set “48kHz/96kHz PCM” in “AUDIO SETUP” to “96kHz/24bit” (page 81).
- Super Audio CD audio signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.
- When you connect the player to an AV amplifier (receiver) using an HDMI cord, you will need to do one of the following:
  - –Connect the AV amplifier (receiver) to the TV with the HDMI cord.
  - –Connect the player to the TV with a video cord other than HDMI cord (component video cord, S VIDEO cord, or audio/video cord).
- When the i.LINK indicator lights up, no signal is output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.

E Connecting to i.LINK components (TA-DA9000ES/STR-DA7100ES/SCD-XA9000ES only)

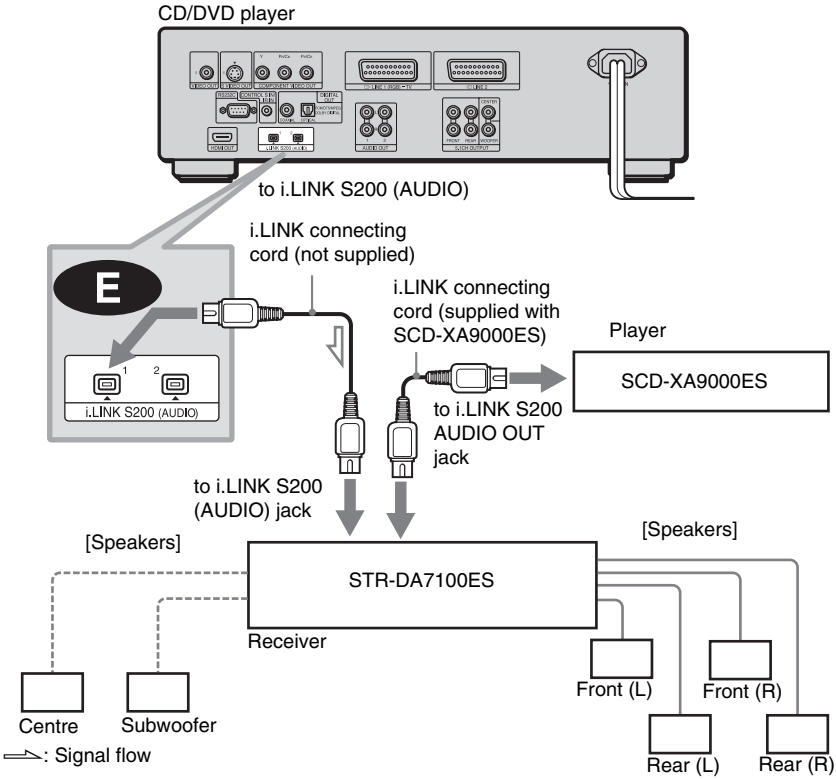
Connect DVP-NS9100ES to i.LINK components (TA-DA9000ES/STR-DA7100ES/SCD-XA9000ES only) with an i.LINK connecting cord.
As of the date when this manual was published, this CD/DVD player is only compatible with i.LINK connections to the i.LINK components (TA-DA9000ES/STR-DA7100ES/SCD-XA9000ES only). For details on i.LINK connections for future Sony components with i.LINK jacks, please refer to the Operating Instructions supplied with each component.

E-1: Connecting one receiver to an i.LINK jack

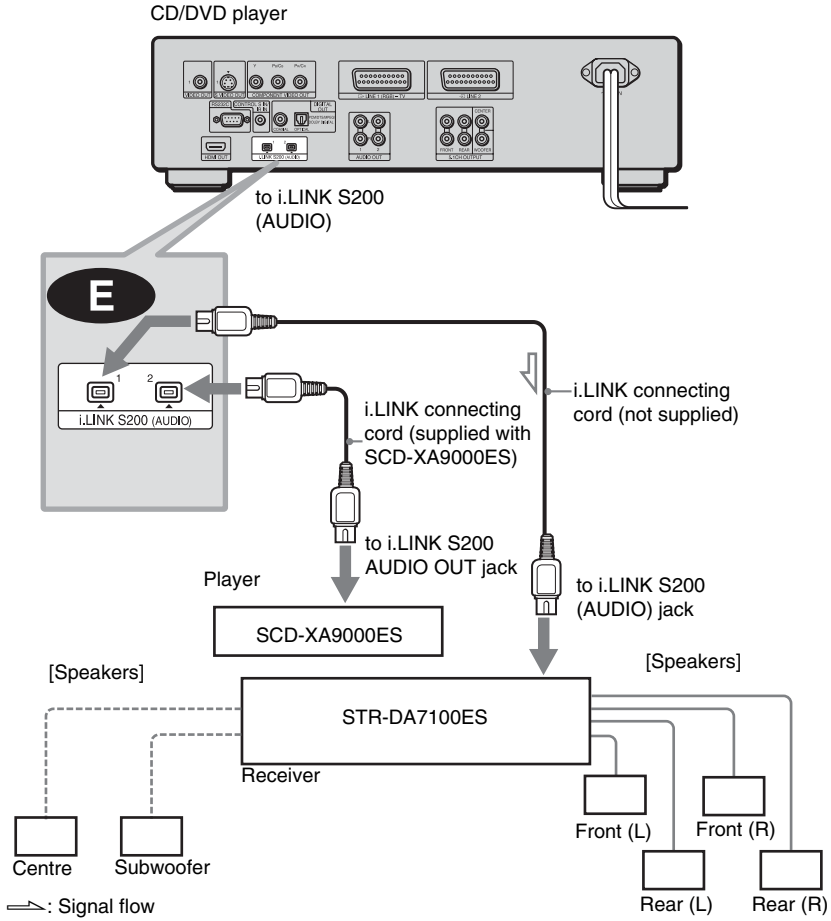


→ continued

E-2: Connecting two players to a receiver's i.LINK jacks



E-3: Connecting a receiver and a player via this player (DVP-NS9100ES)



Note

When the player is turned off or when the i.LINK indicator lights off, audio signals are not output from SCD-XA9000ES to STR-DA7100ES.

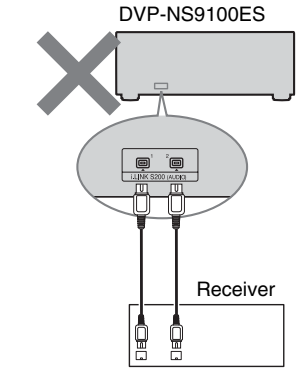
→ *continued*

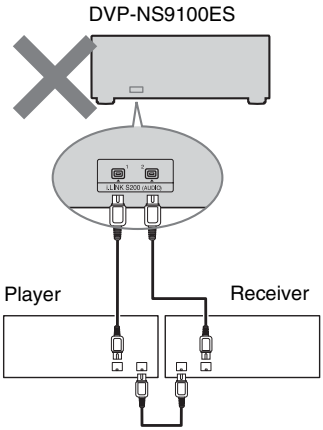
To use the i.LINK connection

Press the i.LINK button in stop mode, so that the i.LINK indicator lights up on the player. To cancel the setting, press the i.LINK button again.

Notes

- i.LINK connections are only possible between this player and TA-DA9000ES/STR-DA7100ES/SCD-XA9000ES. This player has some restrictions on i.LINK functions and may not operate properly if connected to components other than TA-DA9000ES/STR-DA7100ES/SCD-XA9000ES.
- Only component which inputs or outputs an audio signal using an i.LINK jack can be connected. Components using a video signal, PC component, and other AV amplifier cannot be connected to this player.
- You cannot use the i.LINK connection when the player is turned off or when the i.LINK indicator lights off.
- An audio signal of IEEE1394 components without the i.LINK mark cannot be used.
- We do not guarantee playability when you connect a receiver, a DVD player, Super Audio CD/CD player, etc., from another company with i.LINK audio input or output jack.
- If a metal object should fall into the i.LINK S200 AUDIO jack, short-circuiting may occur and damage the components.
- Be sure to insert the plug firmly to prevent malfunction.
- Some i.LINK components comply with copy protection technology and handle encrypted signals. This player complies with the DTLA copy protection technology (Revision 1.3).
- "i.LINK" lights up in the display when this player is ready to output the audio signals from the i.LINK S200 AUDIO jack.
- When the i.LINK indicator lights up, audio signals are output from the i.LINK S200 AUDIO jack, but not from any of the other jacks (including HDMI OUT).
- When you use the i.LINK connection, use a Sony i.LINK cable (not supplied).
- Connect the cable so that the connection does not form a loop between components.

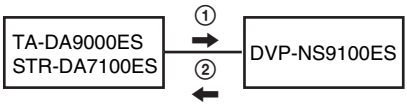




Establishing a LINC

Before an audio signal can be transmitted between i.LINK components, a LINC (Logical Interface Connection) must first be established between the receiving component (of the audio signal) and the sending component.
Establishing a LINC means establishing a logical path for the transmission of digital audio signals between the two components. Each logical path has an ID number. Since the component that sends an audio signal must output the signal to a path, and the component that receives the signal must input it from the same path, the path must be mutually known by both components. During the establishment of a LINC, the following communication occurs between the two i.LINK components.

Example
① TA-DA9000ES/STR-DA7100ES establishes a LINC with DVP-NS9100ES. TA-DA9000ES/STR-DA7100ES sends a request and path information to DVP-NS9100ES to establish a transmission path for the audio signal.



② DVP-NS9100ES responds to TA-DA9000ES/STR-DA7100ES, agreeing to the establishment of a LINC. The digital audio signal transmission becomes possible only after the communication described above has occurred and a LINC has been established.

Listening in high fidelity H.A.T.S. function

When the H.A.T.S. function of TA-DA9000ES/STR-DA7100ES is "ON," digital audio signals are momentarily stored in a buffer, then read with exact timing before being converted to analog. This eliminates the jitter (timing lapses) that sometimes occur during digital signal transmission and greatly improves sound quality.
When this function is turned on, "H.A.T.S." lights up in the display of TA-DA9000ES/STR-DA7100ES whenever the digital audio signal is input to the receiver. When not using this function, set it to "OFF" on TA-DA9000ES/STR-DA7100ES. For details, refer to the Operating Instructions supplied with TA-DA9000ES/STR-DA7100ES.

Notes

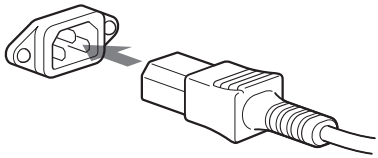
- Because of the way the H.A.T.S. function operates, a slight time lag is introduced between each operation (e.g., pressing play, stop, or pause) and its implementation. The duration of this time lag may be different for CD and Super Audio CD sources.
- The H.A.T.S. function works only with H.A.T.S. compatible components.
- The H.A.T.S. function is available only for music CDs and Super Audio CDs.

Copyright

i.LINK components complying with copyright protection incorporate digital data copy protection technology. One such technology is the DTLA (The Digital Transmission Licensing Administrator) recognized by the Copy Protection Technical Working Group. It may not be possible to make digital copies of copy restricted digital data (video/audio/data) using i.LINK signals between components that comply with the DTLA copy protection technology. In addition, it may not be possible to transfer digital data (video/audio/data) via i.LINK between i.LINK components which comply with DTLA copy protection and i.LINK components which do not.
i.LINK is a designation referring to IEEE 1394-1995 and IEEE 1394a-2000. i.LINK and the i.LINK logo " " are trademarks of Sony Corporation.

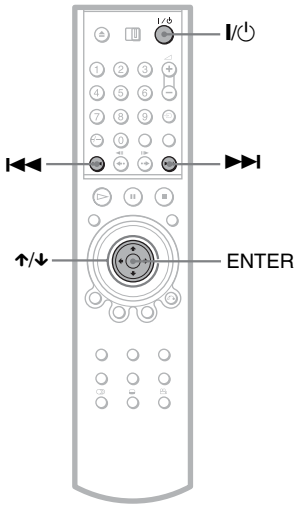
Step 5: Connecting the Mains Lead

Connect the supplied mains lead to the AC IN terminal of the player. Plug the mains leads of the player and TV into an AC outlet.



Step 6: Quick Setup

Follow the steps below to make the minimum number of basic adjustments for using the player. To skip an adjustment, press ▶▶I. To return to the previous adjustment, press I◀◀.



1 **Turn on the TV.**

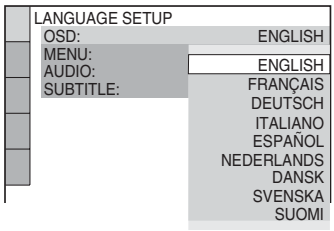
2 **Press I/⏻.**

3 **Switch the input selector on your TV so that the signal from the player appears on the TV screen.**

"Press [ENTER] to run QUICK SETUP" appears at the bottom of the screen. If this message does not appear, select "QUICK" under "SETUP" in the Control Menu to run Quick Setup (page 75).

4 **Press ENTER before inserting a disc.**

The Setup Display for selecting the language used in the on-screen display appears.

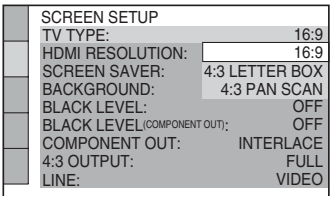


5 Press ↑/↓ to select a language.

The player uses the language selected here to display the menu and subtitles as well.

6 Press ENTER.

The Setup Display for selecting the aspect ratio of the TV to be connected appears.



7 Press ↑/↓ to select the setting that matches your TV type.

◆ If you have a wide-screen TV or a 4:3 standard TV with a wide-screen mode

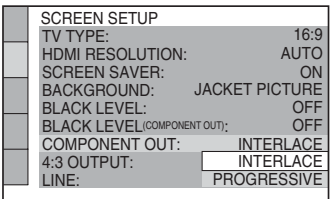
• 16:9 (page 76)

◆ If you have a 4:3 standard TV

• 4:3 LETTER BOX or 4:3 PAN SCAN (page 76)

8 Press ENTER.

The Setup Display for selecting the type of video signal appears.



9 Press ↑/↓ to select the type of signals you wish to output to your TV.

Select “PROGRESSIVE” only if you have made video connection C (page 17) and wish to view progressive video signals.

◆ Interlace format TV (standard TV)

• INTERLACE (page 77)

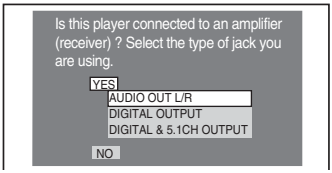
◆ Progressive format TV

• PROGRESSIVE (page 77)

When the setting is changed, the confirmation display appears. If you do not select “Yes” or “No” within about 10 seconds, the setting is canceled and the display returns to the Setup Display.

10 Press ENTER.

The Setup Display for selecting the type of jack used to connect your amplifier (receiver) appears.


Is this player connected to an amplifier (receiver) ? Select the type of jack you are using.
YES
AUDIO OUT L/R
DIGITAL OUTPUT
DIGITAL & 5.1CH OUTPUT
NO

11 Press ↑/↓ to select the type of jack (if any) you are using to connect to an amplifier (receiver), then press ENTER.

Choose the item that matches the audio connection you selected on pages 22 to 29 (A through E).

A

• If you connect just a TV and nothing else, select “NO.” Quick Setup is finished and connections are complete.

B-1 C-1

• Select “AUDIO OUT L/R.” Quick Setup is finished and connections are complete.

B-2 C-2 D-2 D-3 E

• Select “DIGITAL OUTPUT.” The Setup Display for “DOLBY DIGITAL” appears.

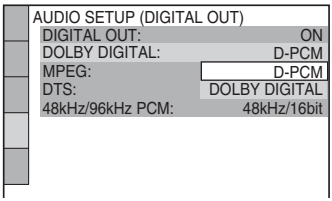
D-1, both D-1 and D-2, or both D-1 and D-3

• Select “DIGITAL & 5.1CH OUTPUT.” The display for “DOLBY DIGITAL” appears.

→ continued

12 Press ↑/↓ to select the type of Dolby Digital signal you wish to send to your amplifier (receiver), then press ENTER.

Choose the signal that matches the audio connection you selected on pages 23 to 29 (B through E).



B-2 C-2
- D-PCM (page 81)

D-2 D-3 E
- DOLBY DIGITAL (only if the amplifier (receiver) has a Dolby Digital decoder) (page 81)

13 Press ↑/↓ to select the type of DTS signal sent to your amplifier (receiver).

Choose the item that matches the audio connection you selected on pages 23 to 29 (B through E).

B-2 C-2
- D-PCM (page 81)

D-2 D-3 E
- DTS (only if the amplifier (receiver) has a DTS decoder) (page 81)

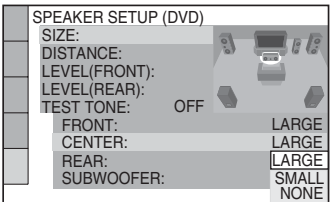
14 Press ENTER.

◆ When "DIGITAL OUTPUT" is selected in step 11
- Quick Setup is finished and connections are complete.

◆ When "DIGITAL & 5.1CH OUTPUT" is selected in step 11
- The Setup Display for "SPEAKER SETUP" appears.

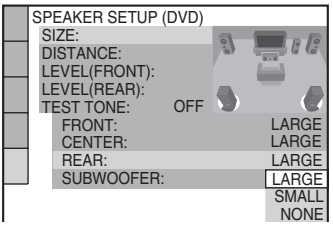
15 Press ↑/↓ to select the size of the centre speaker.

If no centre speaker is connected, select "NONE" (page 82).



16 Press ENTER.

"REAR" is selected.

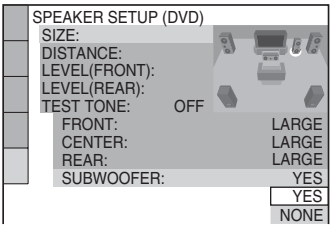


17 Press ↑/↓ to select the size of the rear speakers.

If no rear speaker is connected, select "NONE."

18 Press ENTER.

"SUBWOOFER" is selected.



19 Press ↑/↓ to select whether or not you have connected a subwoofer.

20 Press ENTER.

Quick Setup is finished. All connections and setup operations are complete.

Enjoying the surround sound effects

To enjoy the surround sound effects of this player or your amplifier (receiver), set the following items as described below for the audio connection you selected on pages 23 to 29 (B through E). Each of these is the default setting and does not need to be adjusted when you first connect the player. See page 74 for using the Setup Display.

Audio connection (pages 22 to 29)

A

• No additional settings are needed.

B-1 **C-1** **D-3** **E**

• Set “DOWNMIX” to “DOLBY SURROUND” (page 80).

B-2 **C-2** **D-2**

• Set “DOWNMIX” to “DOLBY SURROUND” (page 80).
• Set “DIGITAL OUT” to “ON” (page 80).

D-1

• Set “DISTANCE” and “LEVEL” according to the connected speakers (page 83).

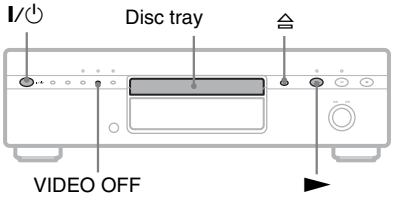
Hints

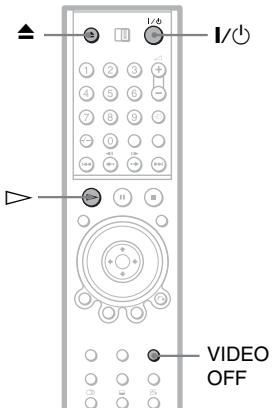
• **For connections B-1 C-1 D-1**
If the sound distorts even when the volume is turned down, set “AUDIO ATT” to “ON” (page 80).
• **For connections B-2 C-2 D-2 D-3 E**
Set “48 kHz/96 kHz PCM” to “96 kHZ/24 bit” only if you connect an amplifier (receiver) that conforms to the 96 kHz sampling frequency (page 81).

Playing Discs

DVD-V DVD-RW VIDEO CD SuperAudioCD CD DATA-CD

Depending on the disc, some operations may be different or restricted.
Refer to the operating instructions supplied with your disc.





1 Turn on your TV.

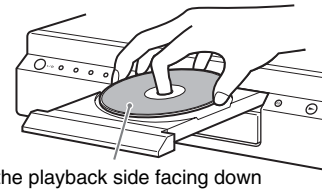
2 Press I/⏻.

The player turns on.

3 Switch the input selector on your TV so that the signal from the player appears on the TV screen.

◆ When using an amplifier (receiver)
Turn on the amplifier (receiver) and select the appropriate channel so that you can hear sound from the player.

4 Press ⏏, and place a disc on the disc tray.



With the playback side facing down

5 Press ▻.

The disc tray closes, and the player starts playback (continuous play). Adjust the volume on the TV or the amplifier (receiver).
Depending on the disc, a menu may appear on the TV screen. For DVD VIDEOs, see page 39. For VIDEO CDs, see page 41.

To turn off the player

Press I/⏻. The player enters standby mode.

To enjoy the clarity of Super Audio CD/CD sound more

You can minimize the effect of the video output by switching it off.
Press VIDEO OFF in stop mode, so that the VIDEO OFF indicator lights up on the player. To cancel the setting, press VIDEO OFF again.

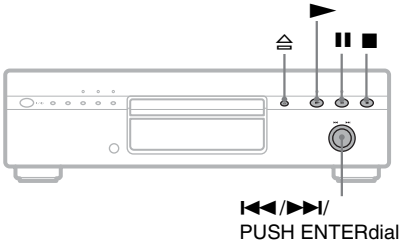
Hints

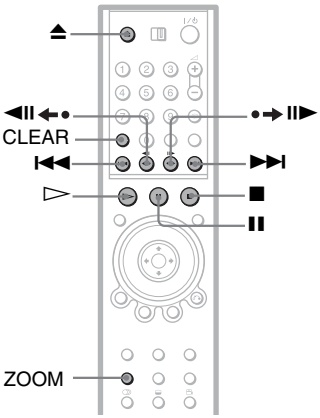
- You can have the player turn off automatically whenever you leave it in stop mode for more than 30 minutes. To turn on this function, set "AUTO POWER OFF" in "CUSTOM SETUP" to "ON" (page 78).
- For details on the types of MP3 audio tracks that you can play on this player, or on their playback order, see "Enjoying MP3 Audio and JPEG Images" (page 61).

Notes

- When transporting the player, remove a disc from the player. Failure to remove the disc may cause damage to the player.
- Audio and video signals are not output from the HDMI OUT jack when the VIDEO OFF function is set to on.
- Super Audio CD audio signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.

Additional operations





To	Operation
Stop	Press ■.
Pause	Press ⏸.
Resume play after pause	Press ⏸ or ▷.
Go to the next chapter, track, or scene in continuous play mode	**On the player:** Turn the I◀◀/▶▶I/ PUSH ENTER dial clockwise. **On the remote:** Press ▶▶I.
Go back to the previous chapter, track, or scene in continuous play mode	**On the player:** Turn the I◀◀/▶▶I/ PUSH ENTER dial counterclockwise. **On the remote:** Press I◀◀ twice.
Stop play and remove the disc	**On the player:** Press ⏏. **On the remote:** Press ⏏.
Replay the previous scene[1)]	Press ◀II ←• (Replay).
Briefly fast forward the current scene[1)]	Press •→ II▶ (Advance).
Magnify the image[2)]	Press ZOOM repeatedly. Press CLEAR to cancel.

1) DVD-VIDEO/DVD-RW only
2) DVD-VIDEO/DVD-RW/VIDEO CD/DATA CD (JPEG) only

Hints

- The Replay function is useful when you want to review a scene or dialog that you missed.
- The Advance function is useful when you want to pass over a scene that you don't want to watch.

Notes

- You may not be able to use the Replay or Advance function with some scenes.
- The Replay function does not work with DVD+RWs in VR mode.

Locking the disc tray (Child Lock)

You can lock the disc tray to prevent children from opening it.

When the player is in standby mode, press ↶ RETURN, ENTER, and then I/⏻ on the remote.

The player turns on and "LOCKED" appears on the front panel display.
The ⏏ button on the player and the remote do not work while the Child Lock is set.

To unlock the disc tray

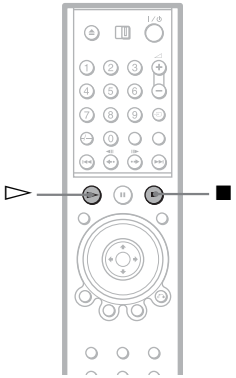
When the player is in standby mode, press ↶ RETURN, ENTER, and then I/⏻ again. "UNLOCKED" appears on the front panel display.

Note

Even if you select "RESET" under "SETUP" in the Control Menu (page 75), the disc tray remains locked.

Resuming Playback From the Point Where You Stopped the Disc (Multi-disc Resume) DVD-V VIDEO CD

The player stores the point where you stopped the disc for up to 40 discs and resumes playback the next time you insert the same disc. If you store a resume playback point for the 41st disc, the resume playback point for the first disc is deleted.



1 While playing a disc, press ■ to stop playback.

"RESUME" appears on the front panel display.

2 Press ▷.

The player starts playback from the point where you stopped the disc in step 1.

Hint

To play from the beginning of the disc, press ■ twice, then press ▷.

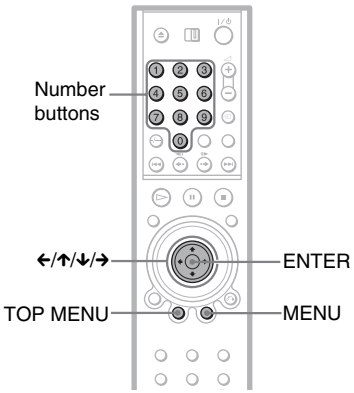
Notes

- "MULTI-DISC RESUME" in "CUSTOM SETUP" must be set to "ON" for this function to work (page 78).
- The point where you stopped playing is cleared when:
  –you change the play mode.
  –you change the settings on the Setup Display.
- For DVD-RWs in VR mode, CDs, Super Audio CDs, and DATA CDs, the player remembers the resume playback point for the current disc.
  The resume point is cleared when:
  –you opened the disc tray.
  –you disconnect the mains lead.
  –the player enters standby mode (Super Audio CD, CD, and DATA CD only).
- Resume Play does not work during Shuffle Play and Programme Play.
- This function may not work with some discs.

Using the DVD's Menu

DVD-V

A DVD is divided into long sections of a picture or a music feature called "titles." When you play a DVD which contains several titles, you can select the title you want using the TOP MENU button.
When you play DVDs that allow you to select items such as the language for the subtitles and the language for the sound, select these items using the MENU button.



1 Press TOP MENU or MENU.

The disc's menu appears on the TV screen. The contents of the menu vary from disc to disc.

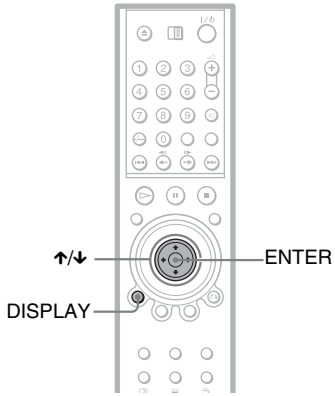
2 Press ←/↑/↓/→ or the number buttons to select the item you want to play or change.

3 Press ENTER.

Selecting "ORIGINAL" or "PLAY LIST" on a DVD-RW

DVD-RW

Some DVD-RWs in VR (Video Recording) mode have two types of titles for playback: originally recorded titles (ORIGINAL) and edited titles created on recordable DVD players (PLAY LIST). You can select the type of titles to be played.

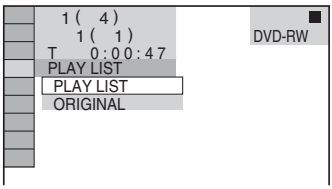


1 Press DISPLAY while the player is in stop mode.

The Control Menu appears.

2 Press ↑/↓ to select (ORIGINAL/PLAY LIST), then press ENTER.

The options for "ORIGINAL/PLAY LIST" appear.



→ continued

3 **Press ↑/↓ to select the setting.**

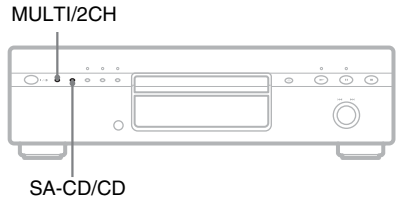
- PLAY LIST: plays the titles created from “ORIGINAL.”
- ORIGINAL: plays the titles originally recorded.

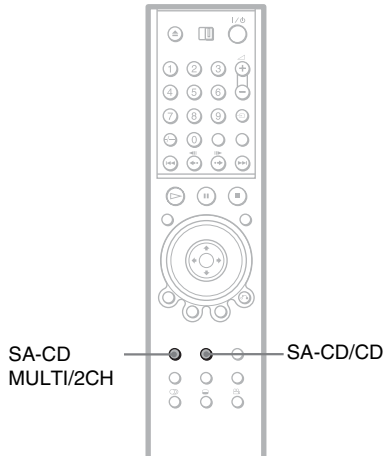
4 **Press ENTER.**

To turn off the Control Menu

Press DISPLAY repeatedly until the Control Menu is turned off.

Selecting a Playback Area for a Super Audio CD



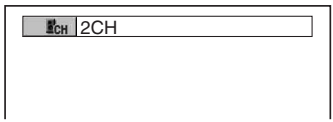


Selecting a playback area on a 2 channel + Multi-channel Super Audio CD

Some Super Audio CDs consist of a 2 channel playback area and a multi-channel playback area. You can select the playback area you want to listen to.

1 **Press SA-CD MULTI/2CH while the player is in stop mode.**

The following display appears.



2 Press SA-CD MULTI/2CH repeatedly to select an item.

- MULTI: Plays a multi-channel playback area.
- 2CH: Plays a 2 channel playback area.

The "MULTI" indicator in the front panel display lights up when selecting a multi-channel playback area.

Hint

You can also select "MULTI/2CH" from the Control Menu (page 13).

Selecting the playback layer of hybrid Super Audio CDs

Some Super Audio CDs consist of a Super Audio CD layer and a CD layer. You can select the playback layer you want to listen to.

Press SA-CD/CD while the player is in stop mode.

Each time you press the button, a Super Audio CD layer or a CD layer is alternately selected.
When selecting a CD layer, the "CD" indicator in the front panel display lights up.

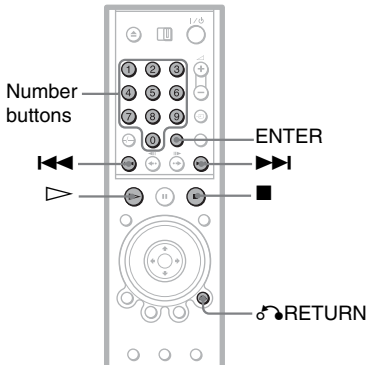
Notes

- For details about Super Audio CDs, see page 91.
- Each play mode function works only within the selected layer or playback area (page 42).

Playing VIDEO CDs With PBC Functions (PBC Playback)

VIDEO CD

PBC (Playback Control) allows you to play VIDEO CDs interactively by following the menu on the TV screen.



1 Start playing a VIDEO CD with PBC functions.

A menu appears.

2 Select the item number and track you want using the number buttons.

3 Press ENTER.

4 Follow the instructions in the menu for interactive operations.

Refer to the instructions supplied with the disc, as the operating procedure may differ depending on the VIDEO CD.

To return to the menu

Press ↶ RETURN.

→ continued

Hint

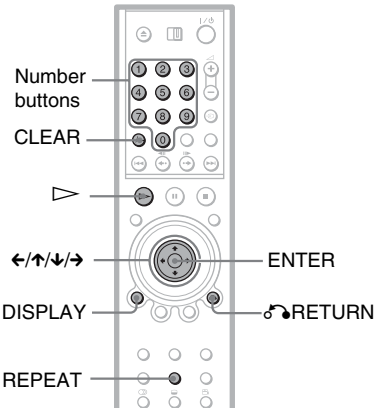
To play without using PBC, press ⏮/⏭ while the player is stopped to select a track, then press ▷ or ENTER.
"Play without PBC." appears on the TV screen and the player starts continuous play. You cannot play still pictures such as a menu.
To return to PBC playback, press ■ twice then press ▷.

Note

Depending on the VIDEO CD, "Press ENTER" in step 3 may appear as "Press SELECT" in the instructions supplied with the disc. In this case, press ▷.

Various Play Mode Functions (Programme Play, Shuffle Play, Repeat Play, A-B Repeat Play)

You can set the following play modes:
- Programme Play (page 43)
- Shuffle Play (page 44)
- Repeat Play (page 45)
- A-B Repeat Play (page 46)



Notes

- The play mode is canceled when:
  –you open the disc tray.
  –you press I/⏻ and the player enters standby mode.
- Before setting a play mode for Super Audio CDs, select the playback layer or area you want to listen to (page 40). Each play mode function works only within the selected layer or playback area.
- You cannot activate Program Play and Shuffle Play at the same time.

Selecting the disc mode (ALL ALBUMS or ONE ALBUM) DATA-CD

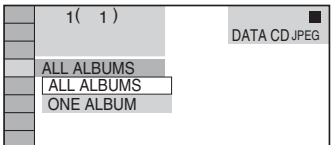
You can play one album or all of the albums in the disc. Before setting Shuffle Play or Repeat Play, you must select whether to apply these play modes to ONE ALBUM or to ALL ALBUMS of the discs.

1 Press DISPLAY/FILE twice.

The Control Menu appears.

2 Press ↑/↓ to select (ALL ALBUMS/ONE ALBUM) and press ENTER.

The options for "ALL ALBUMS/ONE ALBUM" appear.



3 Press ↑/↓ to select an item.

- ALL ALBUMS: Plays the all albums.
- ONE ALBUM: Plays the selected album.

4 Press ENTER.

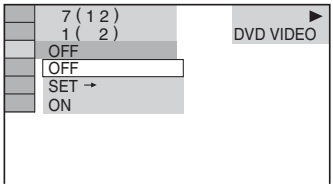
Creating your own programme (Programme Play) DVD-V VIDEO CD SuperAudioCD CD DATA-CD

You can play the contents of a disc in the order you want by arranging the order of the tracks on the disc to create your own programme.
You can programme up to 99 items.

1 Press DISPLAY repeatedly until (PROGRAM) appears on the Control Menu.

2 Press ↑/↓ to select (PROGRAM), then press ENTER.

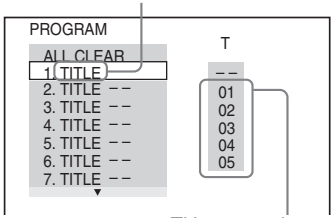
The options for "PROGRAM" appear.



3 Press ↑/↓ to select "SET →" then press ENTER.

The display for programming appears.

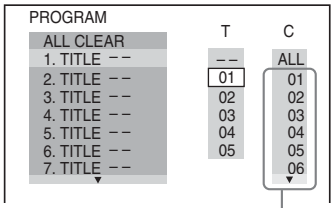
"TRACK" is displayed when you play a VIDEO CD, Super Audio CD, or CD.



Titles or tracks recorded on a disc

4 Press →.

The cursor moves to the title or track row "T" (in this case, "01").



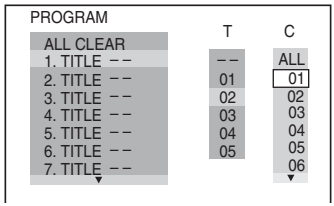
Chapters recorded on a disc

5 Select the title, chapter, album, or track you want to programme.

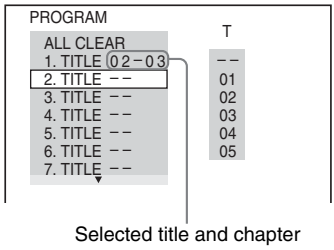
◆ When playing a DVD VIDEO or MP3 audio tracks

For example (DVD VIDEO), select chapter "03" of title "02."
Press ↑/↓ or the number buttons to select "02" under "T," then press ENTER.

→ continued



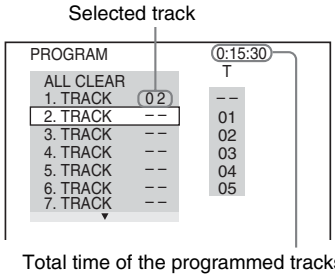
Next, press ↑/↓ or the number buttons to select "03" under "C," then press ENTER.



For an MP3 audio track, select album and track instead of title and chapter.

◆ When playing a VIDEO CD, Super Audio CD, or CD

For example, select track "02."
Press ↑/↓ or the number buttons to select "02" under "T," then press ENTER.
The track number may be displayed in 3 digits for a Super Audio CD.



6 To programme other titles, chapters, or tracks, repeat steps 4 and 5.

The programmed titles, chapters, and tracks are displayed in the selected order.

7 Press ▷ to start Programme Play.

Programme Play begins.
When the programme ends, you can restart the same programme again by pressing ▷.

To return to normal playback

Press CLEAR, or select "OFF" in step 3.

To turn off the display

Press DISPLAY repeatedly until the display is turned off.

To cancel or change a programme

1. Follow steps 1 to 3 of "Creating your own programme (Programme Play)."
2. Select the programme number of the track you want to cancel or change using ↑/↓.
3. Perform the following.

◆ To cancel the programme
Press CLEAR.

◆ To change the programme
Press → and follow step 5 for new programming.

To cancel all of the tracks in the programme

1. Follow steps 1 to 3 of "Creating your own programme (Programme Play)."
2. Press ↑ and select "ALL CLEAR."
3. Press ENTER.

Hint

You can set Repeat Play for the programmed tracks. During Programme Play, follow the steps of "Repeat Play" (page 45).

Notes

- JPEG image files cannot be programmed.
- You cannot activate Program Play and Shuffle Play at the same time.

Playing in random order (Shuffle Play) SACD CD DATA-CD

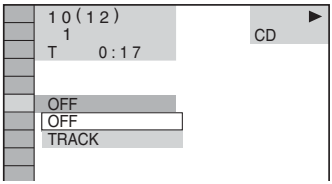
You can have the player "shuffle" tracks. Subsequent "shuffling" may produce a different playing order.

1 Press DISPLAY.

The Control Menu appears.

2 **Press ↑/↓ to select (SHUFFLE), then press ENTER.**

The options for "SHUFFLE" appear.



3 **Press ↑/↓ to select the item to be shuffled.**

◆ When playing a Super Audio CD or CD
- TRACK

◆ When playing a DATA CD (MP3 audio tracks only)
- ALL ALBUMS
  - ALBUM
  - TRACK
- ONE ALBUM
  - TRACK

4 **Press ENTER.**

To return to normal play

Press CLEAR, or select "OFF" in step 3.

Notes

- You cannot activate Program Play and Shuffle Play at the same time.
- You cannot perform Shuffle Play with JPEG image files.
- When the number of tracks to be shuffled is over 99, some tracks may be played back more than once and others may not be played back at all.

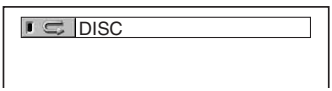
Playing repeatedly (Repeat Play)

DVD-V DVD-RW VIDEO CD Super Audio CD CD DATA-CD

You can play all of the titles, albums or tracks on a disc or a single title, chapter, album, or track repeatedly.
You can use a combination of Shuffle or Programme Play modes.

1 **Press REPEAT.**

The following display appears.



2 **Press REPEAT repeatedly to select the item to be repeated.**

◆ When playing a DVD VIDEO
- DISC: repeats all of the titles on the current disc.
- TITLE: repeats the current title.
- CHAPTER: repeats the current chapter.

◆ When playing a DVD-RW
- DISC: repeats all of the titles on the selected type (ORIGINAL or PLAYLIST).
- TITLE: repeats the current title.
- CHAPTER: repeats the current chapter.

◆ When playing a Super Audio CD, VIDEO CD, or CD
- DISC: repeats all of the tracks on the current disc.
- TRACK: repeats the current track.

◆ When playing a DATA CD
- ALL ALBUMS
  - DISC: repeats all of the albums on the current disc.
  - TRACK (MP3 audio tracks only): repeats the current track.
- ONE ALBUM
  - ALBUM: repeats the current album.
  - TRACK (MP3 audio tracks only): repeats the current track.

◆ When Programme Play or Shuffle Play is activated
- ON: repeats Programme Play or Shuffle Play.

To return to normal play

Press CLEAR, or select "OFF" in step 2.

Hints

- You can set Repeat Play while the player is stopped. After selecting the "REPEAT" option, press ▷. Repeat Play starts.
- You can also select "REPEAT" from the Control Menu (page 14).

→ continued

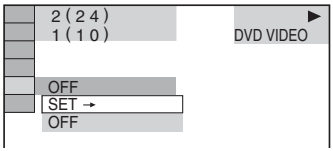
Repeating a specific portion (A-B Repeat Play) DVD-V DVD-RW VIDEO CD SuperAudioCD CD DATA-CD

You can play a specific portion of a title, chapter or track repeatedly. (This function is useful when you want to memorize lyrics, etc.)

1 Press DISPLAY repeatedly until (A-B REPEAT) appears on the Control Menu during playback.

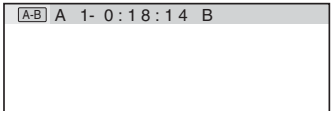
2 Press ↑/↓ to select (A-B REPEAT), then press ENTER.

The options for "A-B REPEAT" appear.



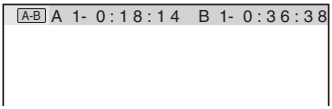
3 Press ↑/↓ to select "SET →," then press ENTER.

The "A-B REPEAT" setting display appears.



4 During playback, when you find the starting point (point A) of the portion to be played repeatedly, press ENTER.

The starting point (point A) is set.



5 When you reach the ending point (point B), press ENTER again.

The set points are displayed and the player starts repeating this specific portion.

To return to normal play

Press CLEAR, or select "OFF" in step 2.

To turn off the Control Menu

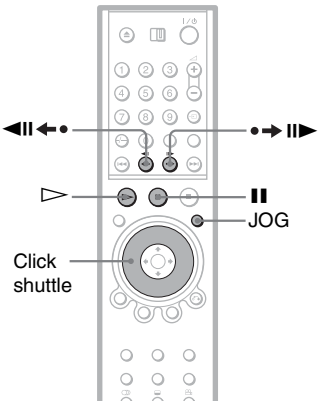
Press DISPLAY repeatedly until the Control Menu is turned off.

Notes

- When you set A-B Repeat Play, the settings for Shuffle Play, Repeat Play, and Programme Play are canceled.
- A-B Repeat Play does not work across multiple titles, scenes, or MP3 tracks.
- A-B Repeat Play does not work if the title contains a still image when playing a DVD-RW in VR mode.
- A-B Repeat Play is canceled when ⏮, ⏸, or ■ is pressed, or when the player is in fast forward or fast reverse mode (page 47) during A-B Repeat Play of a Super Audio CD.
- A-B Repeat Play is canceled when the player is in fast forward or fast reverse mode (page 47) during A-B Repeat Play of a DTS CD.

Searching for a Particular Point on a Disc (Shuttle mode, Jog mode, Freeze Frame)

You can quickly locate a particular point on a disc by monitoring the picture or playing back slowly.



Note

Depending on the DVD/VIDEO CD, you may not be able to do some of the operations described.

Using the click shuttle on the remote (Shuttle mode) DVD-V

DVD-RW VIDEO CD Super Audio CD CD DATA-CD

Turn the click shuttle on the remote. The playback speed changes depending on the turning direction and degree of rotation as follows:

◆ **During playback**

3▶▶ Fast forward (faster than 2▶▶)*
↕
2▶▶ Fast forward (faster than 1▶▶)
↕
1▶▶ Fast forward
↕
×2▶
↕
▶ PLAY (normal speed)
↕
×2◀
↕
1◀◀ Fast reverse
↕
2◀◀ Fast reverse (faster than 1◀◀)
↕
3◀◀ Fast reverse (faster than 2◀◀)*

If you turn the click shuttle quickly, the playback speed goes to "2▶▶(/3▶▶*)" or "2◀◀(/3◀◀*)" immediately.
* DVD VIDEO/DVD-RW/VIDEO CD only

◆ **During pause mode (DVD VIDEO, DVD-RW, VIDEO CD only)**

1▮▶ (playback direction)
↕
2▮▶ (playback direction – slower than 1▮▶)
↕
▮▮ PAUSE
↕
2◀▮ (opposite direction – slower than 1◀▮) (DVD only)
↕
1◀▮ (opposite direction) (DVD only)

To return to normal play

Press ▷.

→ continued

Playing a disc frame by frame using the click shuttle (Jog mode) DVD-V DVD-RW VIDEO CD

1 Press JOG on the remote.

JOG button lights up.

2 Turn the click shuttle.

Depending on the turning speed, playback goes to frame-by-frame playback in the direction that the click shuttle is turned. Turn the click shuttle clockwise to go forward. Turn the click shuttle counterclockwise to go backwards (DVD only). If you turn the click shuttle at a constant speed for a while, the playback speed goes to slow or normal.

To return to normal play

Press ▷.

To turn off the Jog mode

Press JOG again so that JOG button lights off.

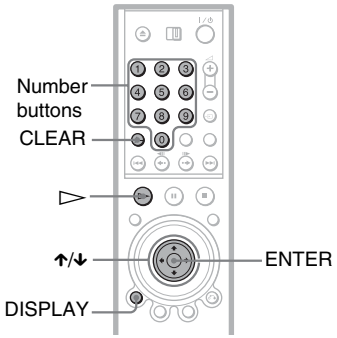
Playing one frame at a time (Freeze Frame)

DVD-V DVD-RW VIDEO CD

When the player is in the pause mode, press •→ II► (step) to go to the next frame. Press ◄II ←• (step) to go to the preceding frame (DVD only). If you press and hold the button down, you can view the frames in succession. To return to normal playback, press ▷.

Searching for a Title/ Chapter/Track/Scene, etc. DVD-V DVD-RW VIDEO CD SuperAudioCD CD DATA-CD

You can search a DVD by title or chapter, and you can search a VIDEO CD/Super Audio CD/CD by track, index, or scene. As titles and tracks are assigned unique numbers on the disc, you can select the desired one by entering its number. Or, you can search for a scene using the time code.



1 Press DISPLAY during playback.

The Control Menu appears.

2 Press ↑/↓ to select the search method.

◆ When playing a DVD VIDEO/DVD-RW

TITLE

CHAPTER

TIME/TEXT or TIME/MEMO

Select "TIME/TEXT" to search for a starting point by inputting the time code.

◆ When playing a VIDEO CD without PBC Playback

TRACK

INDEX

TIME/TEXT or TIME/MEMO

◆ When playing a VIDEO CD with PBC Playback

SCENE

◆ When playing a Super Audio CD/CD

TRACK

INDEX

TIME/TEXT or TIME/MEMO

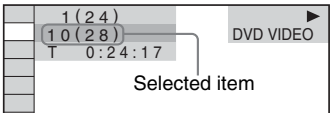
◆ When playing a DATA CD

ALBUM

TRACK (MP3 audio tracks only)

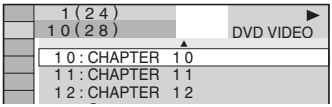
FILE (JPEG image files only)

Example: when you select (CHAPTER)
"** (**)" is selected (** refers to a number).
The number in parentheses indicates the total number of titles, tracks, indexes, scenes, etc. of the disc.



3 Press ENTER.

"** (**)" may change to "-- (**)" depending on the disc or the item.



4 Press the number buttons to select the title, chapter, track, index, or scene number you want to search for.

You can use ↑/↓ instead of the number buttons depending on the item to be searched for.

If you make a mistake

Cancel the number by pressing CLEAR, then select another number.

5 Press ENTER.

The player starts playback from the selected number.

To search for a scene using the time code (DVD VIDEO/DVD-RW/Super Audio CD/CD/ VIDEO CD without PBC function only)

1 In step 2, select TIME/TEXT.
"T **:**:**" (playing time of the current title) is selected.

2 Press ENTER.
"T **:**:**" changes to "T --:--:--."

3 Input the time code using the number buttons, then press ENTER.
For example, to find the scene at 2 hours, 10 minutes, and 20 seconds after the beginning, just enter "2, 1, 0, 2, 0."

To turn off the Control Menu

Press DISPLAY repeatedly until the Control Menu is turned off.

Hints

- You can display the first scene of titles, chapters or tracks recorded on the disc on a screen divided into nine sections. You can start playback directly by selecting one of the scenes. For details, see "Searching by Scene (PICTURE NAVIGATION)" (page 50).
- You can search for a chapter (DVD VIDEO/ DVD-RW only) or track (Super Audio CD/CD/ VCD only) by pressing the number buttons and ENTER.
- The time code can be used for the following:
  –One title on a DVD VIDEO/DVD-RW
  –One track on a VIDEO CD/Super Audio CD/CD

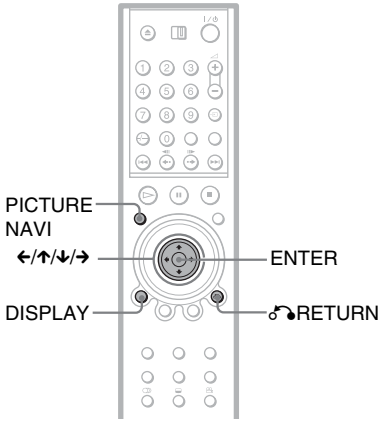
Notes

- You cannot search for a still picture on a DVD-RW in VR mode.
- You cannot search for a scene on a DVD+RW using the time code.
- The title, chapter or track number displayed is the same number recorded on the disc.
- When playing a CD, you cannot play a specific point by selecting it from the index.
- You cannot use the time code to search a VIDEO CD across multiple tracks.

Searching by Scene

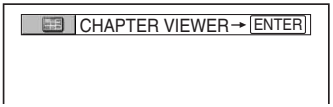
(PICTURE NAVIGATION) DVD-V VIDEO CD

You can divide the screen into 9 subscreens and quickly find a desired scene.



1 Press PICTURE NAVI during playback.

The following display appears.

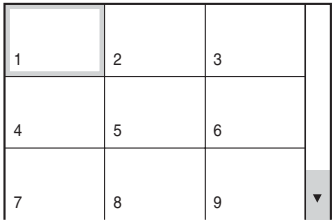


2 Press PICTURE NAVI repeatedly to select an item.

- CHAPTER VIEWER (DVD VIDEO only)
- TITLE VIEWER (DVD VIDEO only)
- TRACK VIEWER (VIDEO CD only)

3 Press ENTER.

The following display appears.



4 Press ←/↑/↓/→ to select a title, chapter, or track, and press ENTER.

Playback starts.

To return to normal play

Press DISPLAY or RETURN.

Hint

If there are more than nine titles, chapters, or tracks, ▼ is displayed at the bottom right of the screen. To display subsequent titles, chapters, or tracks, select a scene on the bottom row (located at box 7, 8 ,9) and press ↓. To return to previous scenes, select a scene on the top row (located at box 1, 2, 3) and press ↑.

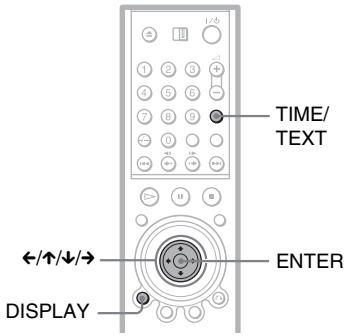
Notes

- Depending on the disc, you may not be able to select some items.
- The sound is muted when using this function.

Checking the Playing Time and Remaining Time

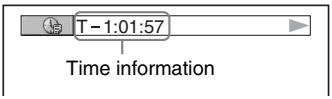
DVD-V DVD-RW VIDEO CD Super Audio CD CD DATA-CD

You can check the playing time and remaining time of the current title, chapter, or track. Also, you can check the DVD/Super Audio CD/CD text or track name (MP3 audio) recorded on the disc.



1 Press TIME/TEXT during playback.

The following display appears.



2 Press TIME/TEXT repeatedly to change the time information.

The available time information depends upon the type of disc you are playing.

◆ When playing a DVD VIDEO or DVD-RW

- T ∗:∗:∗ (hours: minutes: seconds)
  Playing time of the current title
- T–∗:∗:∗
  Remaining time of the current title
- C ∗:∗:∗
  Playing time of the current chapter
- C–∗:∗:∗
  Remaining time of the current chapter

◆ When playing a VIDEO CD (with PBC functions)

- ∗:∗ (minutes: seconds)
  Playing time of the current scene

◆ When playing a VIDEO CD (without PBC functions), Super Audio CD, or CD

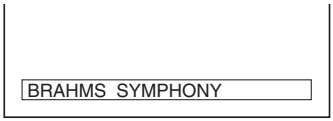
- T ∗:∗ (minutes: seconds)
  Playing time of the current track
- T–∗:∗
  Remaining time of the current track
- D ∗:∗
  Playing time of the current disc
- D–∗:∗
  Remaining time of the current disc

◆ When playing a DATA CD (MP3 audio)

- T ∗:∗ (minutes: seconds)
  Playing time of the current track

To check the DISC MEMO or DVD/Super Audio CD/CD text

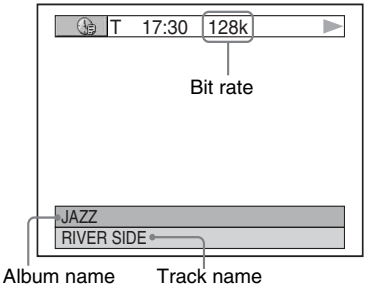
Press TIME/TEXT repeatedly in step 2 to display the Disc MEMO or text recorded on the DVD VIDEO/Super Audio CD/CD. The DVD/Super Audio CD/CD text appears only when text is recorded in the disc. You cannot change the text. If the disc does not contain text, "NO TEXT" appears. In this case, you can label the disc (page 67).



→ continued

To check DATA CD (MP3 audio) bit rate, album name, or track name

Press TIME/TEXT while playing an MP3 audio track on a DATA CD. You can display the name of an album/track and the audio bit rate (the amount of data per second of the current audio) on your TV screen.



Notes

- If the MP3 audio track being played back has an ID3 tag, the ID3 tag information is displayed instead of the track name.
- The name display cannot be scrolled.

Checking the information on the front panel display

You can view the time information and text on the front panel display as well as on the TV screen. The information on the front panel display changes as follows when you change the time information on your TV screen.

When playing a DVD VIDEO or DVD-RW

Title playing time and current title and chapter number

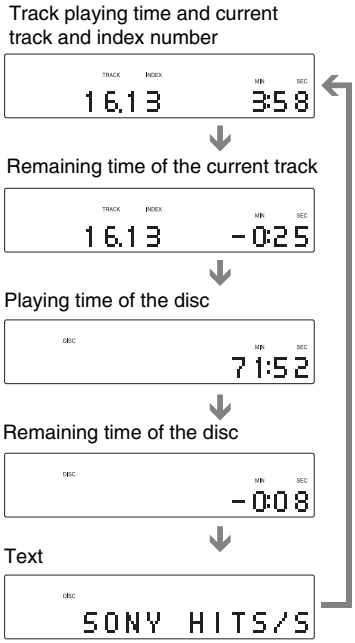
Remaining time of the current title

Playing time and number of the current chapter

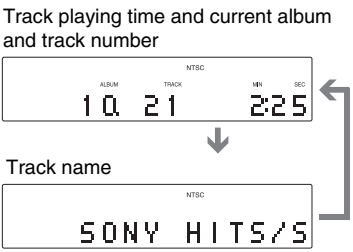
Remaining time of the current chapter

Text

When playing a VIDEO CD (without PBC functions), Super Audio CD, or CD



When playing a DATA CD (MP3 audio)



Hints

- When playing VIDEO CDs with PBC functions, scene number and the playing time are displayed.
- Long text that does not fit in a single line will scroll across the front panel display.
- You can also check the time information and text by pressing the TIME/TEXT button.
- You can also check the time information and text using the Control Menu (page 13).

Notes

- Depending on the type of disc being played, the DVD/Super Audio CD/CD text may not be displayed.
- The player can only display the first level of the DVD/Super Audio CD/CD text, such as the disc name or title.
- Playing time of MP3 audio tracks may not be displayed correctly.
- If you play a disc containing JPEG image files only, "MODE (MP3, JPEG)" is changed to "JPEG" automatically. If you play a disc containing MP3 audio tracks only, "MODE (MP3, JPEG)" is changed to "MP3" automatically.

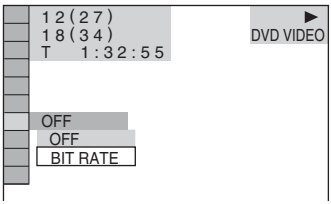
Checking the play information of a DVD (ADVANCED) DVD-V DVD-RW

1 Press DISPLAY during playback.

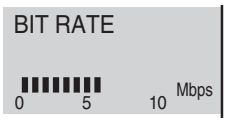
The Control Menu is displayed.

2 Press ↑/↓ to select (ADVANCED), then press ENTER.

The options for "ADVANCED" appear.



3 Press ↑/↓ to select "BIT RATE," then press ENTER.



Bit rate refers to the amount of video data per second in a disc. While playing a disc, the approximate bit rate of the playback picture is displayed as Mbps (megabits per second). The higher the bit rate, the larger the amount of data. However, this does not always mean that you can get higher quality pictures or sounds.

To turn off the ADVANCED display

Select "OFF" in step 3.

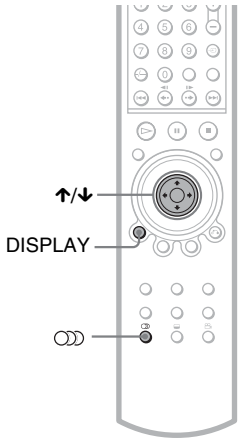
To turn off the Control Menu

Press DISPLAY repeatedly until the Control Menu is turned off.

Changing the Sound

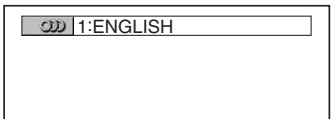
DVD-V DVD-RW VIDEO CD CD DATA-CD

When playing a DVD recorded in multiple audio formats (PCM, Dolby Digital, DTS, or MPEG), you can change the audio format. If the DVD is recorded with multilingual tracks, you can also change the language.
With CDs, DATA CDs, or VIDEO CDs, you can select the sound from the right or left channel and listen to the sound of the selected channel through both the right and left speakers. For example, when playing a disc containing a song with the vocals on the right channel and the instruments on the left channel, you can hear the instruments from both speakers by selecting the left channel.



1 Press (audio) during playback.

The following display appears.



2 Press (audio) repeatedly to select the desired audio signal.

◆ When playing a DVD VIDEO
Depending on the DVD VIDEO, the choice of language varies.
When 4 digits are displayed, they indicate a language code. See "Language Code List" for the language the code represents (page 93). When the same language is displayed two or more times, the DVD VIDEO is recorded in multiple audio formats.

◆ When playing a DVD-RW
The types of sound tracks recorded on a disc are displayed. The default setting is underlined.
Example:
- 1: MAIN (main sound)
- 1: SUB (sub sound)
- 1: MAIN+SUB (main and sub sound)

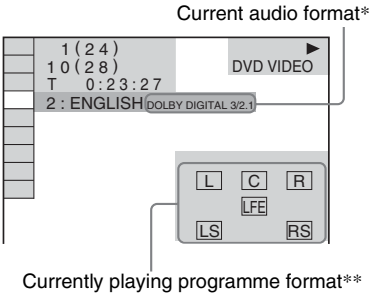
◆ When playing a VIDEO CD, CD, or DATA CD (MP3 audio)
The default setting is underlined.
- STEREO: The standard stereo sound
- 1/L: The sound of the left channel (monaural)
- 2/R: The sound of the right channel (monaural)

Hint
You can also select "AUDIO" from the Control Menu (page 13).

Notes
- You cannot change the sound for Super Audio CDs.
- Some DVDs prohibit changing sounds during playback. In this case, change the sounds using the disc's menu (page 39).

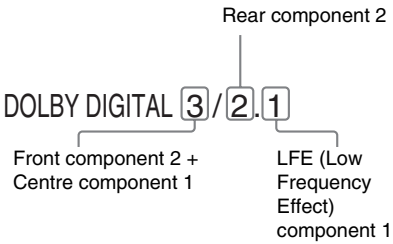
Displaying the disc's audio information DVD-V

Press DISPLAY during playback to display the Control Menu. Select "AUDIO" using ↑/↓. The channels being played are displayed on the screen.
For example, in Dolby Digital format, multiple signals ranging from monaural to 5.1 channel signals can be recorded on a DVD VIDEO. Depending on the DVD VIDEO, the number of the recorded channels may differ.



* "PCM," "DTS," "DOLBY DIGITAL," or "MPEG" is displayed.
The channels in the currently selected track are displayed by numbers as follows:

For Dolby Digital 5.1 ch:



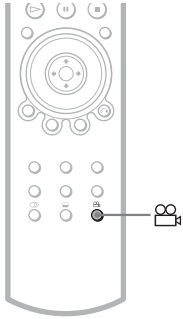
**The letters in the programme format display indicate the following sound components:

- L: Front (left)
- R: Front (right)
- C: Centre
- LS: Rear (left)
- RS: Rear (right)
- S: Rear (monaural): The rear component of the Dolby Surround processed signal and the Dolby Digital signal
- LFE: Low Frequency Effect signal

Changing the Angles

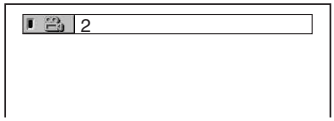
DVD-V

If various angles (multi-angles) for a scene are recorded on the DVD VIDEO, "ANGLE" appears in the front panel display. This means that you can change the viewing angle.



1 Press (angle) during playback.

The number of the angle appears on the display.



2 Press (angle) repeatedly to select the angle number.

The scene changes to the selected angle.

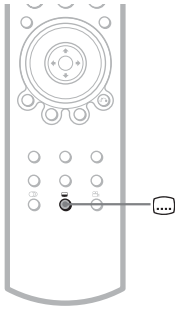
Note

Depending on the DVD VIDEO, you may not be able to change the angles even if multi-angles are recorded on the disc.

Displaying the Subtitles

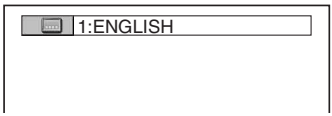
DVD-V DVD-RW

If subtitles are recorded on the discs, you can change the subtitles or turn them on and off whenever you want while playing a DVD.



1 Press (subtitle) during playback.

The following display appears.



2 Press (subtitle) repeatedly to select the language.

◆ **When playing a DVD VIDEO**
Select the language.
Depending on the DVD VIDEO, the choice of language varies.
When 4 digits are displayed, they indicate a language code. See "Language Code List" for the language the code represents (page 93).

◆ **When playing a DVD-RW**
Select "ON."

To turn off the subtitles
Select "OFF" in step 2.

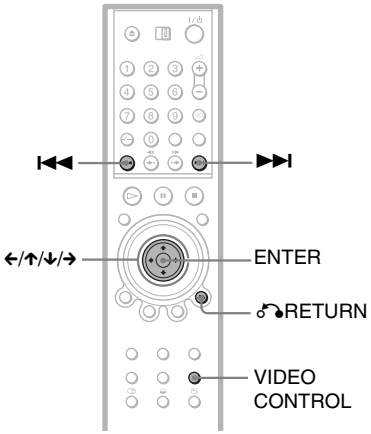
Note

Depending on the DVD VIDEO, you may not be able to change the subtitles even if multilingual subtitles are recorded on it. You also may not be able to turn them off.

Adjusting the Playback Picture (VIDEO CONTROL) DVD-V

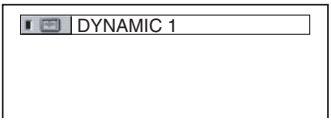
DVD-RW VIDEO CD DATA-CD

You can adjust the video signal of a DVD, VIDEO CD, or JPEG Image files from the player to obtain the picture quality you want. Choose the setting that best suits the programme you are watching.
When you select "MEMORY," you can make further adjustments to each element of the picture (colour, brightness, etc.).



1 Press VIDEO CONTROL during playback.

The following display appears.



2 Press VIDEO CONTROL repeatedly to select the setting you want.

The default setting is underlined.
- STANDARD: displays a standard picture.
- DYNAMIC 1: produces a bold dynamic picture by increasing the picture contrast and the colour intensity.
- DYNAMIC 2: produces a more dynamic picture than DYNAMIC 1 by further increasing the picture contrast and the colour intensity.
- CINEMA 1: enhances details in dark areas by increasing the black level.
- CINEMA 2: white colours become brighter and black colours become richer, and the colour contrast is increased.
- MEMORY: adjusts the picture in greater detail.

Hint
When you watch a movie, "CINEMA 1" or "CINEMA 2" is recommended.

Adjusting the picture items in "MEMORY"

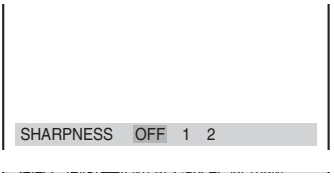
You can adjust each element of the picture individually.
- SHARPNESS:
  OFF: No adjustment.
  1: Softens the outlines of images.
  2: Enhances the outlines of images.
- Y NR (luminance noise reduction):
  Reduces noise contained in the luminance element of the video signal.
- C NR (chroma noise reduction):
  Reduces noise contained in the colour element of the video signal.
- CHROMA DELAY:
  Adjusts colours that appear to have shifted horizontally.
- A/V SYNC:
  Adjusts delay between the picture and sound.

→ continued

- PROGRESSIVE 1:
  Sets a threshold at which the player determines the progressive conversion method.
  The player automatically detects whether the software is video based or film based, and converts the video signals in the corresponding progressive conversion method. When the set point is closer to "VIDEO," the video based software conversion is more likely to be selected; when closer to "FILM," the film based conversion is the likely choice. When set specifically to "VIDEO," the video based software conversion will be always applied regardless of the software type.
  See "Glossary" for details about the video based software and film based software (page 88).
- PROGRESSIVE 2:
  Adjusts the progressive video signals processed under the video based software conversion. Set closer to "STILL" for software containing static pictures such as scenery. Or, set closer to "MOVE" for software containing dynamic moving pictures such as a car chase.
- PICTURE:
  Changes the contrast.
- BRIGHTNESS:
  Changes the overall brightness.
- COLOR:
  Makes the colours deeper or lighter.
- HUE:
  Changes the colour balance.
- GAMMA:
  Adjusts the brightness of selected areas. See "Adjusting the brightness of selected areas (Gamma Correction)" for details (page 59).

1 Press VIDEO CONTROL repeatedly to select "MEMORY" and press ENTER.

The "SHARPNESS" adjustment bar appears.



2 Press ←/→ to adjust the outline, then press ENTER.

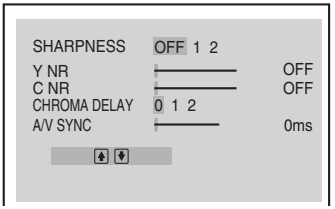
The adjustment is saved, and "Y NR" adjustment bar appears.

3 Repeat step 2 to adjust "Y NR," and the other items such as "C NR," and "CHROMA DELAY."

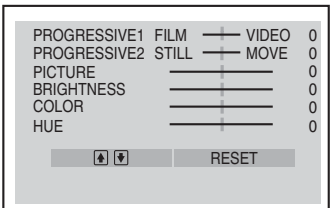
4 When you reach the "GAMMA→" adjustment bar, press ↓.

Video Control display 1 appears. To go to Video Control display 2, press ↓ again. You can check all the adjustments other than "GAMMA."

Video Control display 1



Video Control display 2



To turn off the display

Press ↩ RETURN.

Hints

- To reset the picture items to the default settings, press → after step 4 to select "RESET" in Video Control display 2 and press ENTER.
- You can skip the adjustment without saving by pressing ↑/↓ in step 2.
- Video based software, such as TV drama, animation, and live music software are more adequately processed under the video based conversion. Film based software such as movies are better processed under the film based conversion.
- When you are watching a movie that has a lot of noise, it is recommended that you set "SHARPNESS" to "1."

Notes

- Depending on the disc or the scene being played, the "Y NR," or "C NR" effect may be hard to discern.
- Some DVDs contain both video based and film based sections. For example, a DVD may contain a movie taken on film, and a "Making of" sequence taken on video.
- If the progressive format image becomes unclear or unnatural when "MEMORY" is set to "PROGRESSIVE 1" or "PROGRESSIVE 2," try viewing with "PROGRESSIVE 1" set to "VIDEO." If this does not improve the picture, view the images in Interlace format through the COMPONENT VIDEO OUT jacks (page 77), or switch to another jack.
- "CHROMA DELAY" is not usable when signals are output from the HDMI jack.

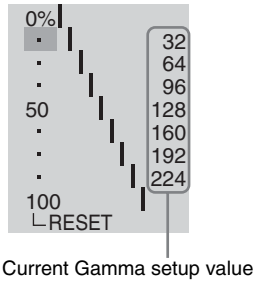
Adjusting the brightness of selected areas (Gamma Correction)

Depending on your TV or viewing environment, images on the screen may lose definition when a certain area of the image is so light that it appears washed out, or so dark that it blends into the surrounding dark areas. By correcting the Gamma value, you can adjust the brightness of selected areas to get a clearer image. While the "BRIGHTNESS" adjustment controls the brightness of the entire image, the "GAMMA" adjustment is useful when only some portions of the image need adjusting.

Example: You are watching a movie that is rich in shadows and you want to see the hidden details of the scenery.
If you use the "BRIGHTNESS" adjustment, the entire image will become brighter, losing definition in the areas that were initially bright. The "GAMMA" adjustment enables you to select the dark part and gradually increase its brightness without sacrificing the overall definition.

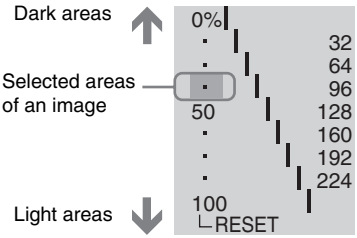
1 After step 3 of "Adjusting the picture items in MEMORY," press ↑/↓ to display the "GAMMA→" adjustment bar, and press ENTER or →.

The "GAMMA" adjustment display appears.



2 Press ↑/↓ to select areas of an image.

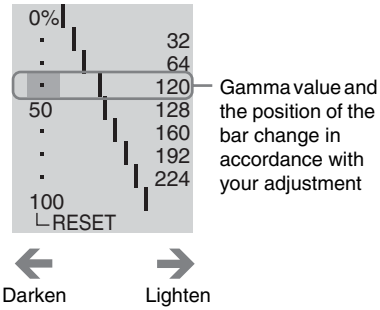
The upper region adjusts the dark areas and the lower region adjusts the light areas.



→ continued

3 Press ←/→ to adjust the brightness level of the area that you selected.

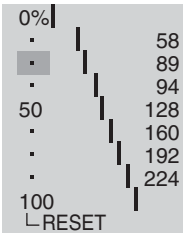
← decreases the level (darkens the area), and → increases the level (lightens the area). The level can be adjusted between 16 and 235. The level for the dark areas can never be greater than the light areas.



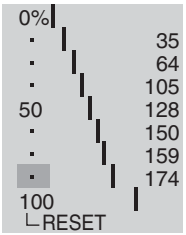
4 Repeat steps 2 and 3 to adjust the brightness level of other areas that you select.

Try to keep the line that connects the brightness level of each area as smooth and straight as possible, as shown below.

How to lighten the dark areas of an image



How to darken the light areas of an image



To prevent the image from appearing overly altered, do not give the line any sharp changes. Gradually make the adjustments while viewing the image on your TV screen.

Press ↶ RETURN to stop making adjustments to the image.

5 Press ENTER.

The "GAMMA→" adjustment bar appears and the adjusted gamma values are stored in memory.

To reset only the gamma value to the default setting

Select "RESET" in the "GAMMA" adjustment display by pressing ↑/↓, and press ENTER.

Hint

You can move the gamma adjustment display horizontally by pressing ⏮/⏭.

Note

"GAMMA" is not usable when signals are output from the HDMI jack.

About MP3 Audio Tracks and JPEG Image Files

MP3 is audio compression technology that satisfies the ISO/MPEG regulations. JPEG is image compression technology.
You can play DATA CDs that contain MP3 audio tracks or JPEG image files. The sampling frequencies of playable MP3 files are 44.1 kHz and 48 kHz.

DATA CDs that the player can play

You can play back DATA CDs (CD-ROMs/CD-Rs/CD-RWs) recorded in MP3 (MPEG1 Audio Layer 3) and JPEG format. However, the discs must be recorded according to ISO 9660 Level 1, Level 2 or Joliet format for the player to recognize the tracks (or files). You can also play discs recorded in Multi Session.
Refer to the instructions supplied with the CD-R/CD-RW drives and the recording software (not supplied) for details on the recording format.

Note on Multi Session discs

If MP3 audio tracks or JPEG image files are recorded in the first session, the player will also play MP3 audio tracks or JPEG image files in other sessions. If audio tracks and images in Music CD format or Video CD format are recorded in the first session, only the first session will be played back.

Note

The player may not be able to play some DATA CDs created in the Packet Write format.

MP3 audio track or JPEG image file that the player can play

The player can play the following tracks and files:
– MP3 audio tracks with the extension ".MP3."
– MP3 audio tracks recorded in the following sampling frequencies: 44.1 kHz, 48 kHz.
– JPEG image files with the extension ".JPEG" or ".JPG."
– JPEG image files that conform to the DCF* image file format.

* "Design rule for Camera File system": Image standards for digital cameras regulated by JEITA (Japan Electronics and Information Technology Industries Association).

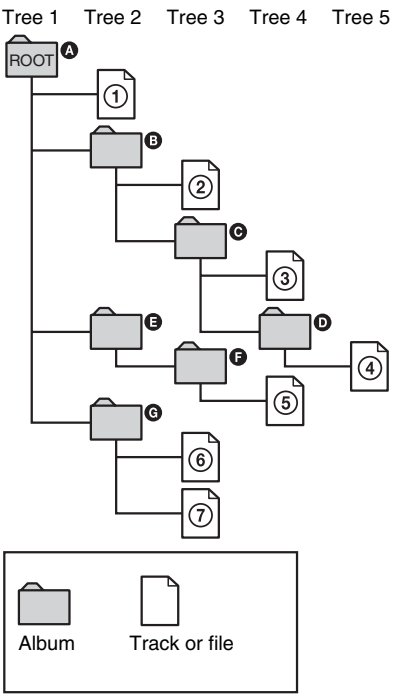
Notes

- The player will play any data with the extension ".MP3," ".JPG," or ".JPEG," even if they are not in MP3 or JPEG format. Playing these data may generate a loud noise which could damage your speaker system.
- The player does not conform to audio tracks in MP3PRO format.
- Some JPEG files cannot be played.

About playback order of albums, tracks, and files

The playback order of albums, MP3 audio tracks, and JPEG image files on DATA CDs is as follows:

◆Structure of disc contents



→ continued

When you insert a DATA CD and press ▷, the numbered tracks (or files) are played sequentially, from ① through ⑦. Any sub-albums/tracks (or files) contained within a currently selected album take priority over the next album in the same tree. (Example: Ⓒ contains Ⓓ so ④ is played before ⑤.)

In the list of albums on the Control Menu (page 63), the album names are arranged in the following order:
Ⓐ → Ⓑ → Ⓒ → Ⓓ → Ⓕ → Ⓖ. Albums that do not contain tracks (or files) (such as album Ⓔ) do not appear in the list.

Hints

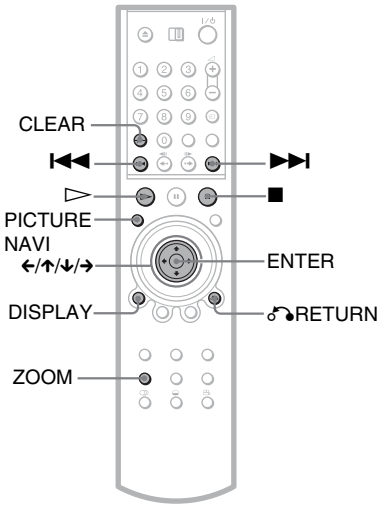
- If you add numbers (01, 02, 03, etc.) to the front of the track/file names when you store the tracks (or files) in a disc, the tracks and files will be played in that order.
- Since a disc with many trees takes longer to start playback, it is recommended that you create albums with no more than two trees.

Notes

- Depending on the software you use to create the DATA CD, the playback order may differ from the above illustration.
- The playback order above may not be applicable if there are more than 500 albums and 999 tracks/files in each album.
- Proceeding to the next or another album may take some time.

Playing MP3 Audio Tracks or JPEG Image Files DATA-CD

You can play MP3 audio tracks and JPEG image files on DATA CDs (CD-ROMs/CD-Rs/CD-RWs).
To play MP3 audio tracks, see "Selecting an MP3 audio track" (page 63). To play JPEG image files, see "Selecting a JPEG image file" (page 63). To play DATA CDs that contain MP3 audio tracks and JPEG image files, see "Selecting the playback mode for a DATA CD (MODE (MP3, JPEG))" (page 65).



Hint

You can view the disc information while playing MP3 audio tracks (page 51).

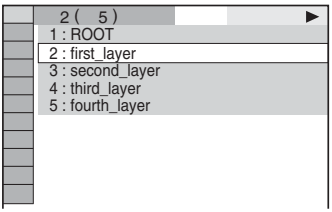
Selecting an album

1 Press DISPLAY.

The Control Menu appears.

2 Press ↑/↓ to select (ALBUM), then press ENTER.

The list of albums on the disc appears.



3 Press ↑/↓ to select the album you want to play, then press ENTER.

Playback starts from the selected album.
To select MP3 audio tracks, see "Selecting an MP3 audio track" (page 63).
To select JPEG image files, see "Selecting a JPEG image file" (page 63).

To stop playback

Press ■.

To turn on or off the Control Menu

Press DISPLAY repeatedly.

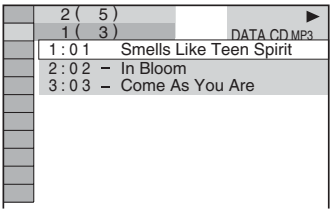
Hint

Of the selected album, you can select to play only the MP3 audio tracks or JPEG image files by setting "MODE (MP3, JPEG)" (page 65).

Selecting an MP3 audio track

1 After step 3 of "Selecting an album," press ↑/↓ to select (TRACK), then press ENTER.

The list of tracks in the album appears.



2 Press ↑/↓ to select a track, and press ENTER.

Playback starts from the selected track.

To stop playback

Press ■.

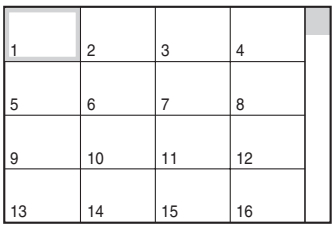
To go to the next or previous MP3 audio track

Press ⏮/⏭ during playback. You can select the first track of the next album by pressing ⏭ during playback of the last track of the current album.

Selecting a JPEG image file

1 After step 3 of "Selecting an album," press PICTURE NAVI.

The image files in the album appear in 16 subscreens. A scroll box is displayed on the right.

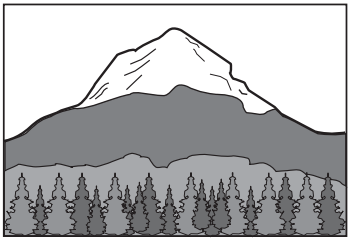


To display subsequent images, select an image on the bottom row and press ↓. To return to previous images, select an image on the top row and press ↑.

→ continued

2 Press ←/↑/↓/→ to select the image you want to view, and press ENTER.

The selected image appears.
Example

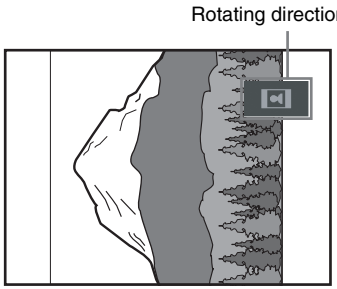


To go to the next or previous JPEG image file

Press ←/→ during playback. You can select the first file of the next album by pressing → during playback of the last file of the current album.

To rotate a JPEG image

Press ↑/↓ while viewing the image. Each time you press ↑, the image rotates counterclockwise by 90 degrees.
To return to normal view, press CLEAR.
Note that the view also returns to normal if you press ←/→ to go to the next or previous image.
Example: when ↑ is pressed once.

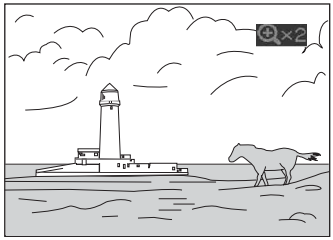


To magnify a JPEG image (ZOOM)

Press ZOOM while viewing the image. You can enlarge the image up to four times the original size, and scroll using ←/↑/↓/→.
To return to normal view, press CLEAR.

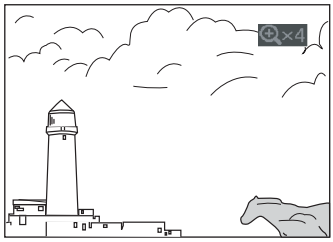
◆When pressed once (x2)

The image enlarges twice the original size.



◆When pressed twice (x4)

The image enlarges four times the original size.



To stop viewing the JPEG image

Press ■.

Hints

- While viewing JPEG image files, you can set options such as “INTERVAL” (page 66) and “EFFECT” (page 66).
- The date the picture was taken is displayed beside “DATE” in the Control Menu (page 13). Note that no date may appear depending on the digital camera.
- You can check the date information during playback when the Exif* tag is recorded in the JPEG image data.

* “Exchangeable Image File Format” is a digital camera image format defined by the Japan Electronics and Information Technology Industries Association (JEITA).

Note

PICTURE NAVI does not work if “AUDIO (MP3)” is selected in “MODE (MP3, JPEG)” (page 65).

Selecting the playback mode for a DATA CD (MODE (MP3, JPEG))

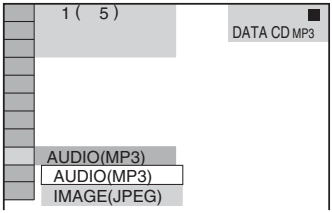
When you play DATA CDs that contain MP3 audio tracks and JPEG image files, you can select to play the MP3 audio tracks or the JPEG image files.

1 Press DISPLAY in stop mode.

The Control Menu appears.

2 Press ↑/↓ to select (MODE (MP3, JPEG)), and press ENTER.

The options for "MODE (MP3, JPEG)" appear.



3 Press ↑/↓ to select a setting, and press ENTER.

The default setting is underlined.

- AUDIO (MP3): plays only MP3 audio tracks continuously.
- IMAGE (JPEG): plays only JPEG image files continuously.

Notes

- If you select an album containing JPEG image files only and "MODE (MP3, JPEG)" is set to "AUDIO (MP3)," "No audio data" appears on the screen.
- If you select an album containing MP3 audio tracks only and "MODE (MP3, JPEG)" is set to "IMAGE (JPEG)," "No image data" appears on the screen.

Enjoying JPEG Images as a Slide Show DATA-CD

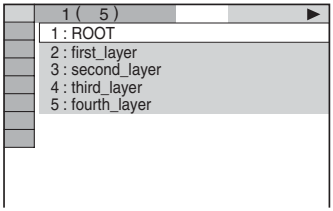
You can play JPEG image files on a DATA CD successively as a slide show.

1 Press DISPLAY twice.

The Control Menu appears.

2 Press ↑/↓ to select (ALBUM), then press ENTER.

The list of albums on the DATA CD appears.



3 Press ↑/↓ to select an album, then press ENTER.

The JPEG images in the selected album start playing as a slide show.

To stop playback

Press ■.

Notes

- The slide show stops when ↑/↓ or ZOOM is pressed. To resume the slide show, press ▷.
- This function does not work if "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" (page 65).
- Some JPEG files may take longer to display depending on the file size.

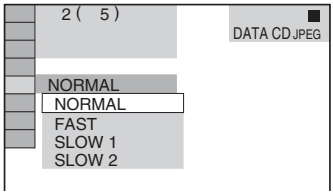
→ continued

Setting the pace for a slide show (INTERVAL)

You can set the time the slides are displayed on the screen.

1 Press DISPLAY twice.
The Control Menu appears.

2 Press ↑/↓ to select (INTERVAL), then press ENTER.
The options for "INTERVAL" appear.



3 Press ↑/↓ to select a setting.
The default setting is underlined.
- NORMAL: normally select this position.
- FAST: sets a duration shorter than NORMAL.
- SLOW1: sets a duration longer than NORMAL.
- SLOW2: sets a duration longer than SLOW1.

4 Press ENTER.

Note

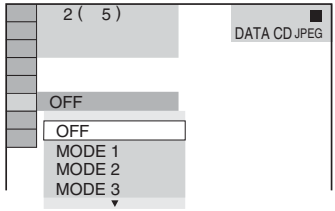
Some JPEG files, especially progressive JPEG files or JPEG files of 3,000,000 pixels or more, may take longer to display.

Selecting the slides' appearance (EFFECT)

You can select the way the slides are displayed during a slide show.

1 Press DISPLAY twice.

2 Press ↑/↓ to select (EFFECT), then press ENTER.
The options for "EFFECT" appear.



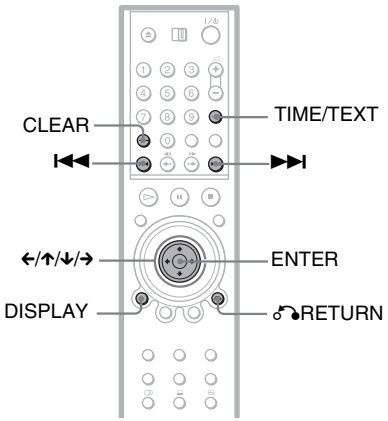
3 Press ↑/↓ to select a setting.
The default setting is underlined.
- OFF: turns off this function.
- MODE1: the image sweeps in from top to bottom.
- MODE2: the image sweeps in from left to right.
- MODE3: the image stretches out from the centre of the screen.
- MODE4: the images randomly cycle through the effects.
- MODE5: the next image slides over the previous image.

4 Press ENTER.

Labeling the Disc

(Disc Memo)

You can label the disc with a personal title of 20 characters (Disc Memo) (when DVD/ Super Audio CD/VIDEO CD/CD text is not recorded on the disc).
The Disc Memo can be anything you like, such as a title, musician's name, category or date of purchase.



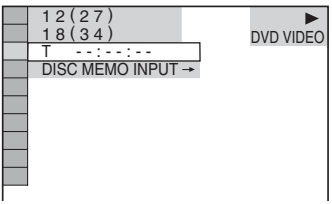
Labeling a disc

DVD-V VIDEO CD SuperAudioCD CD

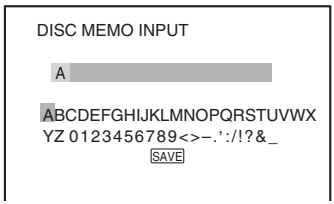
1 **Insert the disc you want to label.**

2 **Press DISPLAY.**
The Control Menu appears.

3 **Press ↑/↓ to select (TIME/ MEMO) and press ENTER.**
"DISC MEMO INPUT →" appears.

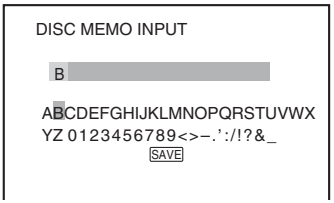


4 **Press ↓ to select "DISC MEMO INPUT →" and press ENTER.**
The "DISC MEMO INPUT" display appears.



5 **Select a character by pressing ←/↑/↓/→, or by turning the click shuttle.**
The selected character changes the colour.

6 **Press ENTER.**



7 **Repeat steps 5 and 6 to input other characters.**

8 **When you have entered all the characters for a Disc Memo, select "SAVE" by pressing ←/↑/↓/→, and press ENTER.**
The Disc Memo is stored.

To turn off the display

Press RETURN.

To erase a character

1 Press I◄◄ or ►►I to move the cursor to the character you want to erase in step 5 or 6 of "Labeling a disc."

2 Press CLEAR.

→ continued

To insert a character

1 Press ⏮ or ⏭ to move the cursor to the insertion point or the character you want to correct in step 5 or 6 of "Labeling a disc."

2 Select a correct character by pressing ←/↑/↓/→ or turning the click shuttle.

3 To insert a character, press ENTER.

To check the Disc Memo

Press "TIME/TEXT."
The Disc Memo appears in the front panel display and at the bottom of the TV screen.

Note

You can label up to 400 discs. When you have the player store over 400 discs in memory, each new Disc Memo erases the oldest Disc Memo from those first stored.

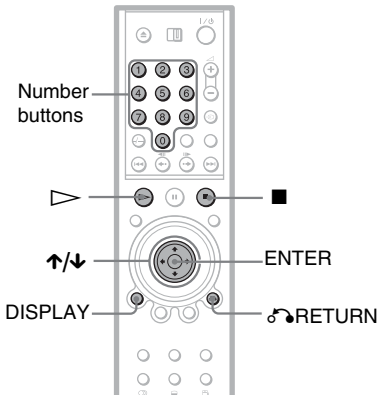
Locking Discs

(CUSTOM PARENTAL CONTROL, PARENTAL CONTROL)

You can set two kinds of playback restrictions for the desired disc.

- Custom Parental Control
  You can set playback restrictions so that the player will not play inappropriate discs.
- Parental Control
  Playback of some DVD VIDEOs can be limited according to a predetermined level such as the age of the users. Scenes may be blocked or replaced with different scenes.

The same password is used for both Parental Control and Custom Parental Control.



Custom Parental Control

DVD-V DVD-RW VIDEO CD SuperAudioCD CD DATA-CD

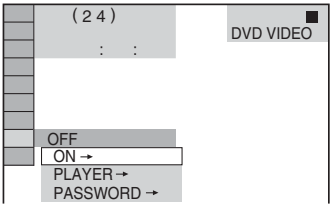
You can set the same Custom Parental Control password for up to 400 discs. When you set the 401st disc, the first disc is canceled.

1 **Insert a disc you want to lock (page 36).**
If the disc is playing, press ■ to stop playback.

2 **Press DISPLAY.**
The Control Menu appears.

3 Press ↑/↓ to select (PARENTAL CONTROL), then press ENTER.

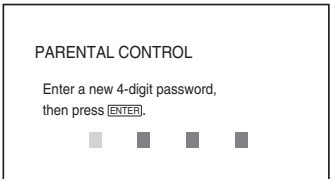
The options for "PARENTAL CONTROL" appear.



4 Press ↑/↓ to select "ON →," then press ENTER.

◆ If you have not entered a password

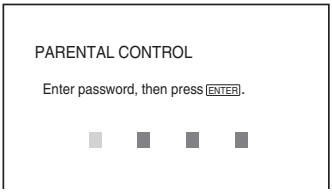
The display for registering a new password appears.



Enter a 4-digit password using the number buttons, then press ENTER. The display for confirming the password appears.

◆ When you have already registered a password

The display for entering the password appears.



5 Enter or re-enter your 4-digit password using the number buttons, then press ENTER.

"Custom parental control is set." appears and the screen returns to the Control Menu.

To turn off the Custom Parental Control function

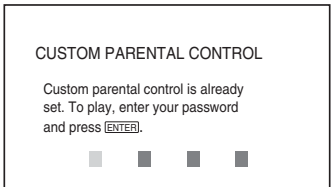
1 Follow steps 1 to 3 of "Custom Parental Control."

2 Press ↑/↓ to select "OFF →," then press ENTER.

3 Enter your 4-digit password using the number buttons, then press ENTER.

To play a disc for which Custom Parental Control is set

1 Select the disc for which Custom Parental Control is set.
The "CUSTOM PARENTAL CONTROL" display appears.



2 Enter your 4-digit password using the number buttons, then press ENTER.
The player is ready for playback.

Hint

If you forget your password, enter the 6-digit number "199703" using the number buttons when the "CUSTOM PARENTAL CONTROL" display asks you for your password, then press ENTER. The display will ask you to enter a new 4-digit password.

Parental Control (limited playback) DVD-V

Playback of some DVD VIDEOs can be limited according to a predetermined level such as the age of the users. The "PARENTAL CONTROL" function allows you to set a playback limitation level.

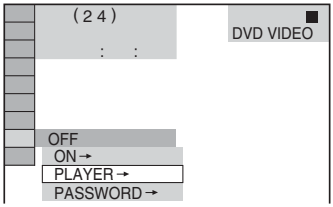
1 Press DISPLAY while the player is in stop mode.

The Control Menu appears.

→ continued

2 Press ↑/↓ to select (PARENTAL CONTROL), then press ENTER.

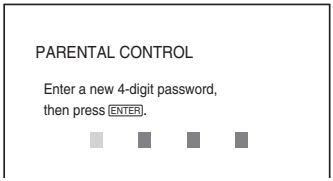
The options for "PARENTAL CONTROL" appear.



3 Press ↑/↓ to select "PLAYER →," then press ENTER.

◆ If you have not entered a password

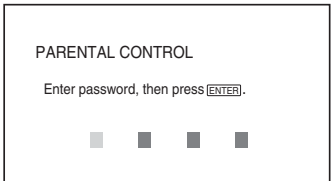
The display for registering a new password appears.



Enter a 4-digit password using the number buttons, then press ENTER. The display for confirming the password appears.

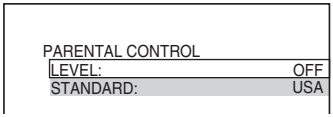
◆ When you have already registered a password

The display for entering the password appears.



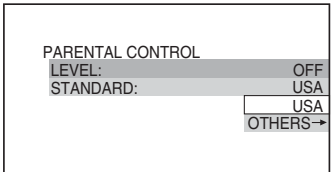
4 Enter or re-enter your 4-digit password using the number buttons, then press ENTER.

The display for setting the playback limitation level appears.



5 Press ↑/↓ to select "STANDARD," then press ENTER.

The selection items for "STANDARD" are displayed.



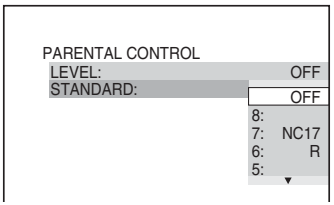
6 Press ↑/↓ to select a geographic area as the playback limitation level, then press ENTER.

The area is selected.

When you select "OTHERS →," select and enter a standard code in the table on page 93.

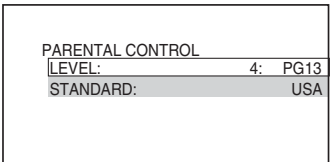
7 Press ↑/↓ to select "LEVEL," then press ENTER.

The selection items for "LEVEL" are displayed.



8 Select the level you want using ↑/↓, then press ENTER.

Parental Control setting is complete.



The lower the value, the stricter the limitation.

To turn off the Parental Control function

Set "LEVEL" to "OFF" in step 8.

To play a disc for which Parental Control is set

1 Insert the disc and press ▷.
The display for entering your password appears.

2 Enter your 4-digit password using the number buttons, then press ENTER.
The player starts playback.

Hint

If you forget your password, press ⏏ to open the disc tray and repeat steps 1 to 3 of "Parental Control (limited playback)." When you are asked to enter your password, enter "199703" using the number buttons, then press ENTER. The display will ask you to enter a new 4-digit password. After you enter a new 4-digit password, press ⏏ to close the disc tray and press ▷. When the display for entering your password appears, enter your new password.

Notes

- When you play discs which do not have the Parental Control function, playback cannot be limited on this player.
- Depending on the disc, you may be asked to change the parental control level while playing the disc. In this case, enter your password, then change the level. If the Resume Play mode is canceled, the level returns to the previous level.

Changing the password

1 Press DISPLAY while the player is in stop mode.
The Control Menu appears.

2 Press ↑/↓ to select (PARENTAL CONTROL), then press ENTER.
The options for "PARENTAL CONTROL" appear.

3 Press ↑/↓ to select "PASSWORD →," then press ENTER.
The display for entering the password appears.

4 Enter your 4-digit password using the number buttons, then press ENTER.

5 Enter a new 4-digit password using the number buttons, then press ENTER.

6 To confirm your password, re-enter it using the number buttons, then press ENTER.

If you make a mistake entering your password

Press ← before you press ENTER and input the correct number.

If you make a mistake

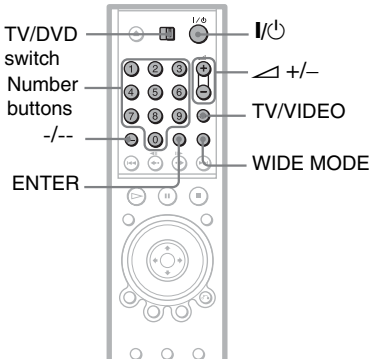
Press ↶ RETURN.

To turn off the display

Press DISPLAY repeatedly until the display is turned off.

Controlling Your TV or AV Amplifier (Receiver) With the Supplied Remote

By adjusting the remote signal, you can control your TV with the supplied remote. If you connect the player to an AV amplifier (receiver), you can control the volume with the supplied remote.



Notes

- Depending on the unit being connected, you may not be able to control your TV using some of the buttons below.
- If you enter a new code number, the code number previously entered will be erased.
- When you replace the remote's batteries, the code number you have set may be reset to the default setting. Set the appropriate code number again.

Controlling TVs with the remote

1 Slide the TV/DVD switch to TV.

2 Hold down I/⏻, and enter the manufacturer's code for your TV using the number buttons (see "Code numbers of controllable TVs" below).

3 Release I/⏻.

When the TV/DVD switch is set to TV, the remote performs the following:

I/⏻	Turns the TV on or off
+/–	Adjusts the volume of the TV
Number buttons, -/--* and ENTER	Selects the channel of the TV
WIDE MODE	Switches to or from the wide mode of a Sony wide TV
TV/VIDEO	Switches the TV's input source between the TV and other input sources The button works even if the TV/DVD switch is set to DVD

* If you use number buttons to select the TV's programme position, press -/-- followed by the number buttons for two-digit numbers.

Code numbers of controllable TVs

If more than one code number is listed, try entering them one at a time until you find the one that works with your TV.

Manufacturer	Code number
Sony	01 (default)
Aiwa	01
Grundig	11
Hitachi	23,24,72
Loewe	06,45
Nokia	15,16,69,73
Panasonic	17,49
Philips	06,07,08,23,45,72
Saba	12,13,36,43,74,75
Samsung	06,22,23,71,72
Sanyo	25
Sharp	29
Telefunken	12,13,36,43,74,75
Thomson	12,13,43,74,75
Toshiba	38
LG	06
JVC	33

Controlling the volume of your AV amplifier (receiver) with the remote

1 **Slide the TV/DVD switch to DVD.**

2 **Hold down I/⏻, and enter the manufacturer's code for your AV amplifier (receiver) using the number buttons (see "Code numbers of controllable AV amplifiers (receiver)" below).**

3 **Release I/⏻.**

The ◿ +/– buttons control the AV amplifier's volume.

◆ **If you want to control the TV volume**
Slide the TV/DVD switch to TV.

Code numbers of controllable AV amplifiers (receivers)

If more than one code number is listed, try entering them one at a time until you find the one that works with your AV amplifier (receiver).

Manufacturer	Code number
Sony*	78, 79, 80, 91
Denon	84, 85, 86
Kenwood	92, 93
Onkyo	81, 82, 83
Pioneer	99
Sansui	87
Technics	97, 98
Yamaha	94, 95, 96

* If you cannot control the volume of your Sony AV amplifier (receiver) with the remote, try entering the code number 91, and change the command mode of your amplifier (receiver) to "COMMAND MODE [AV1]" (not all amplifiers have this option).
Refer to the instructions supplied with your amplifier (receiver) to change the command mode.

Hint

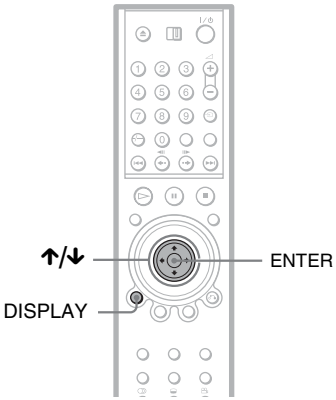
If you want to control the TV's volume even when the TV/DVD switch is set to DVD, repeat steps 1 and 2, and then enter the code number 90 (default).

Using the Setup Display

By using the Setup Display, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup Display, among other things. For details on each Setup Display item, see pages 75 to 84.

Note

Playback settings stored in the disc take priority over the Setup Display settings and not all of the functions described may work.

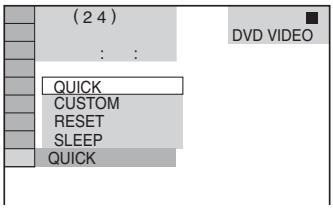


1 Press DISPLAY when the player is in stop mode.

The Control Menu appears.

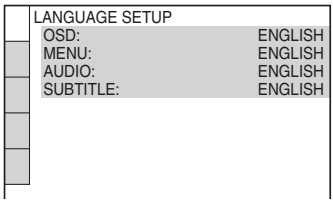
2 Press ↑/↓ to select (SETUP), then press ENTER.

The options for "SETUP" appear.



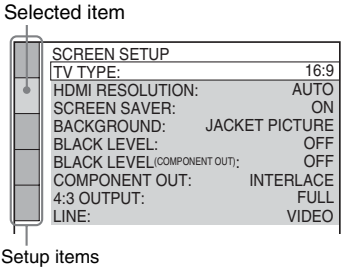
3 Press ↑/↓ to select "CUSTOM," then press ENTER.

The Setup Display appears.



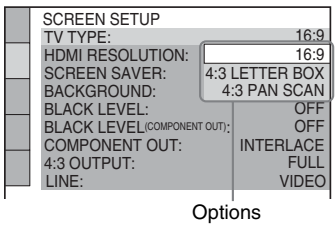
4 Press ↑/↓ to select the setup item from the displayed list: "LANGUAGE SETUP," "SCREEN SETUP," "CUSTOM SETUP," "AUDIO SETUP" or "SPEAKER SETUP." Then press ENTER.

The Setup item is selected.
Example: "SCREEN SETUP"



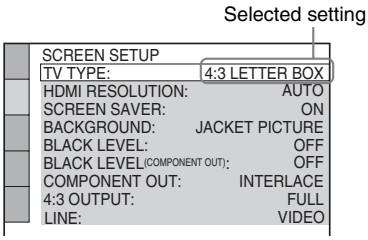
5 Press ↑/↓ to select an item, then press ENTER.

The options for the selected item appear.
Example: "TV TYPE"



6 Press ↑/↓ to select a setting, then press ENTER.

The setting is selected and setup is complete.
Example: “4:3LETTER BOX”



To turn off the display

Press DISPLAY repeatedly until the display is turned off.

To enter the Quick Setup mode

Select “QUICK” in step 3. Follow from step 5 of the Quick Setup explanation to make basic adjustments (page 32).

To reset all of the “SETUP” settings

1. Select “RESET” in step 3 and press ENTER.
2. Select “YES” using ↑/↓.
3. Press ENTER.
   All of the settings explained on pages 75 to 84 return to the default settings. Do not press I/⏻ while resetting the player as it takes a few seconds to complete.

To set the sleep timer

1. Select “SLEEP” after step 2 and press ENTER.
2. Select the desired time using ↑/↓.
   The unit of time increment is minutes.
3. Press ENTER.

Note

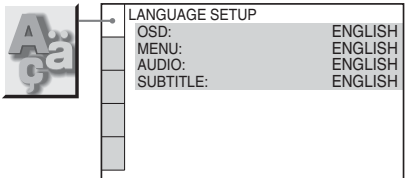
You cannot check the elapsed time after you set the sleep timer.

Setting the Display or Sound Track Language

(LANGUAGE SETUP)

“LANGUAGE SETUP” allows you to set various languages for the on-screen display or sound track.

Select “LANGUAGE SETUP” in the Setup Display. To use the display, see “Using the Setup Display” (page 74).



◆ OSD (On-Screen Display)

Switches the display language on the screen.

◆ MENU (DVD VIDEO only)

You can select the desired language for the disc’s menu.

◆ AUDIO (DVD VIDEO only)

Switches the language of the sound track.

◆ SUBTITLE (DVD VIDEO only)

Switches the language of the subtitle recorded on the DVD VIDEO.

Hint

If you select “OTHERS →” in “MENU,” “SUBTITLE,” and “AUDIO,” select and enter a language code from “Language Code List” on page 93 using the number buttons.

Note

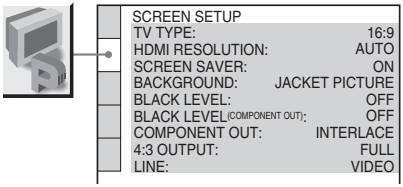
When you select a language in “MENU,” “SUBTITLE,” or “AUDIO” that is not recorded on the DVD VIDEO, one of the recorded languages will be automatically selected.

Settings for the Display

(SCREEN SETUP)

Choose settings according to the TV to be connected.

Select “SCREEN SETUP” in the Setup Display. To use the display, see “Using the Setup Display” on page 74.
The default settings are underlined.

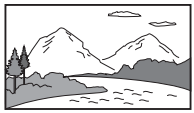


◆ TV TYPE

Selects the aspect ratio of the connected TV (4:3 standard or wide).

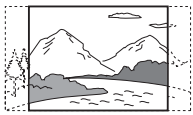
16:9	Select this when you connect a wide-screen TV or a TV with a wide mode function.
4:3 LETTER BOX	Select this when you connect a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.
4:3 PAN SCAN	Select this when you connect a 4:3 screen TV. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.

16:9



4:3 LETTER BOX

4:3 PAN SCAN



Note

Depending on the DVD, “4:3 LETTER BOX” may be selected automatically instead of “4:3 PAN SCAN” or vice versa.

◆ HDMI RESOLUTION

Selects the type of video signals output from the HDMI OUT jack. When you select AUTO (default), the player outputs video signals of the highest resolution acceptable for your TV. If the picture is not clear, natural or to your satisfaction, try another option that suits the disc and your TV/projector, etc. For details, refer also to the instruction manual supplied with the TV/projector, etc.

AUTO	Normally, select this.
1920×1080i	Sends 1920×1080i video signals.
1280×720p	Sends 1280×720p video signals.
720×480/ 576p	Sends 720×480/576p video signals.

Note

Even when a setting other than “AUTO” is selected and the connected TV cannot accept the resolution, the player automatically adjusts the video signals that are suitable for the TV.

◆ SCREEN SAVER

The screen saver image appears when you leave the player in pause or stop mode for 15 minutes, or when you play a Super Audio CD, CD, or DATA CD (MP3 audio) for more than 15 minutes. The screen saver will help prevent your display device from becoming damaged (ghosting). Press ▷ to turn off the screen saver.

ON	Turns on the screen saver.
OFF	Turns off the screen saver.

◆ BACKGROUND

Selects the background colour or picture on the TV screen in stop mode or while playing a Super Audio CD, CD, or DATA CD (MP3 audio).

JACKET PICTURE	The jacket picture (still picture) appears, but only when the jacket picture is already recorded on the disc (DVD, etc.). If the disc does not contain a jacket picture, the "GRAPHICS" picture appears.
GRAPHICS	A preset picture stored in the player appears.
BLUE	The background colour is blue.
BLACK	The background colour is black.

◆ BLACK LEVEL

Selects the black level (setup level) for the video (NTSC) signals output from the jacks other than COMPONENT VIDEO OUT/ HDMI OUT jacks.

OFF	Lowers the standard black level. Use this when the picture becomes too white.
ON	Sets the black level of the output signal to the standard level.

◆ BLACK LEVEL (COMPONENT OUT)

Selects the black level (setup level) for the video (NTSC) signals output from the COMPONENT VIDEO OUT jacks. You cannot select this when the player outputs progressive signals (page 77).

OFF	Sets the black level of the output signal to the standard level. Normally select this position.
ON	Raises the standard black level. Use this setting when the picture appears too dark.

◆ COMPONENT OUT

Selects the type of signal output from the COMPONENT VIDEO OUT jacks. See page 89 for more information about the two different signal types.

INTERLACE	Select this when the player is connected to a standard (interlace format) TV.
PROGRESSIVE	Select this when you have a TV that can accept progressive signals.

When the setting is changed, the confirmation display appears. If you do not select "Yes" or "No" within about 10 seconds, the setting is canceled and the display returns to the Setup Display.

To force the system to switch to interlace when "PROGRESSIVE" is selected

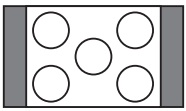
Hold down ■ on the player and press PLAY on the player.

◆ 4:3 OUTPUT

This setting is effective only when you set "TV TYPE" in "SCREEN SETUP" to "16:9." If you can change the aspect ratio on your progressive format (480p) compatible TV, change the setting on your TV, not the player.

Note that this setting is effective only for HDMI connection, or progressive signals output from the COMPONENT VIDEO OUT jacks.

FULL	Select this when you can change the aspect ratio on your TV.
NORMAL	Select this when you cannot change the aspect ratio on your TV. Shows a 16:9 aspect ratio signal with black bands on left and right sides of the image.



16:9 aspect ratio TV

◆ LINE

Selects video signals output from the LINE (RGB)-TV jack on the rear panel of the player.

VIDEO	Outputs video signals.
S VIDEO	Outputs S video signals.
RGB	Outputs RGB signals.

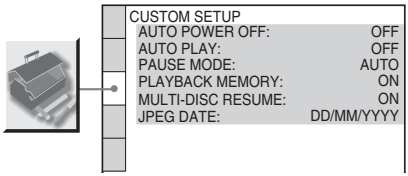
- If your TV does not accept S video or the RGB signals, no picture will appear on the TV screen, even if you select "S VIDEO" or "RGB." Refer to the instructions supplied with your TV.
- If your TV has only one SCART (EURO AV) jack, do not select "S VIDEO."
- When you select "RGB," you cannot use the COMPONENT VIDEO OUT jacks.

→ continued

Custom Settings (CUSTOM SETUP)

Use this to make playback related adjustments and other settings.

Select “CUSTOM SETUP” in the Setup Display. To use the display, see “Using the Setup Display” (page 74).
The default settings are underlined.



◆ AUTO POWER OFF

Switches the Auto Power Off setting on or off.

OFF	Switches this function off.
ON	The player enters standby mode when left in stop mode for more than 30 minutes.

◆ AUTO PLAY

Switches the Auto Play setting on or off. This function is useful when the player is connected to a timer (not supplied).

OFF	Switches this function off.
ON	Automatically starts playback when the player is turned on.

◆ PAUSE MODE (DVD VIDEO/DVD-RW only)

Selects the picture in pause mode.

AUTO	The picture, including subjects that move dynamically, is output with no jitter. Normally select this position.
FRAME	The picture, including subjects that do not move dynamically, is output in high resolution.

◆ PLAYBACK MEMORY (DVD VIDEO/ VIDEO CD/DATA CD (JPEG) only)

The player can store “VIDEO CONTROL” of each disc for up to 400 discs (Playback Memory).
Set this function “ON” or “OFF.”

ON	Stores the settings in memory when you eject the disc or when you set the player to standby mode with the disc still inserted.
OFF	Does not store the settings in memory.

Note

The player can store the settings of up to 400 discs. When you store the setting of disc number 401, the first disc setting is canceled.

◆ MULTI-DISC RESUME (DVD VIDEO/ VIDEO CD only)

Switches the Multi-disc Resume setting on or off. Resume playback can be stored in memory for up to 40 different DVD VIDEOs/ VIDEO CDs (page 38).

ON	Stores the resume setting in memory for up to 40 discs.
OFF	Does not store the resume setting in memory. Playback restarts at the resume point only for the current disc in the player.

◆ JPEG DATA (DATA CD only)

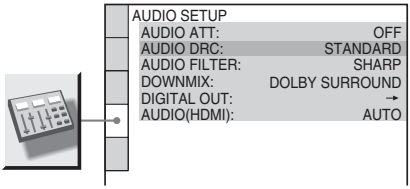
Change the data information order of a JPEG image.

DD/MM/YYYY
YYYY/MM/DD
MM/DD/YYYY

YYYY; Year
MM; Month
DD; Day

Settings for the Sound (AUDIO SETUP)

"AUDIO SETUP" allows you to set the sound according to the playback and connection conditions.
Select "AUDIO SETUP" in the Setup Display. To use the display, see "Using the Setup Display" (page 74).
The default settings are underlined.



Jack affected by the "AUDIO SETUP" item

Item	Jack				
	AUDIO OUT L/R 1/2	5.1CH OUTPUT	DIGITAL OUT (COAXIAL/ OPTICAL)	HDMI OUT	i.LINK S200 (AUDIO)
AUDIO ATT	○	○	–	–	–
AUDIO DRC	–	○	–	–	–
AUDIO FILTER	○	○	–	–	–
DOWNMIX	○	–	○	○	○
DIGITAL OUT					
ON/OFF	–	–	○	–	–
DOLBY DIGITAL	–	–	○	○*	○
MPEG	–	–	○	○*	○
DTS	–	–	○	○*	○
48 kHz/96 kHz PCM	–	–	○	–	○**
AUDIO (HDMI)	–	–	–	○	–

* When a component that cannot receive the selected signal is connected to the HDMI OUT jack, the setting may be automatically changed to the setting that can be received.
** Depending on the disc, 48 kHz/16 bit PCM will be output even if you set "48 kHz/96 kHz PCM" to "96kHz/24bit."

→ continued

◆ AUDIO ATT (attenuation)

If the playback sound is distorted, set this item to "ON." The player reduces the audio output level.
This function affects the output of the following jacks:
– AUDIO OUT L/R 1/2 jacks
– 5.1CH OUTPUT jacks

OFF	Normally, select this position.
ON	Select this when the playback sound from the speakers is distorted.

◆ AUDIO DRC (Dynamic Range Control) (DVD VIDEO/DVD-RW only)

Allows smaller sound to be heard at low volume when playing a DVD that conforms to "AUDIO DRC." This feature applies only to Dolby Digital-encoded soundtracks. This affects the output from the following jacks:
– 5.1CH OUTPUT jacks

STANDARD	Normally select this position.
WIDE RANGE	Gives you the feeling of being at a live performance.

Notes

- When "DOLBY DIGITAL" is set to "D-PCM," you cannot set "AUDIO DRC" to "WIDE RANGE." Even if you have already set "AUDIO DRC" to "WIDE RANGE," when you set "DOLBY DIGITAL" to "D-PCM," "AUDIO DRC" is changed to "STANDARD" forcibly.
- When "AUDIO DRC" is set to "WIDE RANGE," sound may not be output from the component connected to the AUDIO OUT L/R 1/2 or HDMI jack.

◆ AUDIO FILTER (except Super Audio CD)

Selects a digital filter to reduce noise above 22.05 kHz (Sampling frequency (Fs) of the audio source is 44.1 kHz), 24 kHz (Fs is 48 kHz), or 48 kHz (Fs is above 96 kHz).

SHARP	Provides a wide frequency range and spatial feeling.
SLOW	Provides smooth and warm sound.

Note

There may be little effect by changing the digital filter depending on the disc or playback environment.

◆ DOWNMIX (DVD VIDEO/DVD-RW only)

Switches the method for mixing down to 2 channels when you play a DVD which has rear sound elements (channels) or is recorded in Dolby Digital format. For details on the rear signal components, see "Displaying the disc's audio information" (page 55). This function affects the output of the following jacks:
– AUDIO OUT L/R 1/2 jacks
– DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT/i.LINK jacks when "DOLBY DIGITAL" or "DTS" is set to "D-PCM" (page 81).

DOLBY SURROUND	Normally select this position. Multi-channel audio signals are output to two channels for enjoying surround sounds.
NORMAL	Multi-channel audio signals are downmixed to two channels for use with your stereo.

◆ DIGITAL OUT (except Super Audio CD)

Selects if audio signals are output via the DIGITAL OUT (COAXIAL or OPTICAL) jack.

ON	Normally select this position.
OFF	The influence of the digital circuit upon the analog circuit is minimal.If you are using the HDMI OUT jack, PCM sound will be output depending on the connected equipment. If the signal is encrypted for copyright protection purposes, the signal is only output as 48 kHz/16 bit PCM.

◆ DOLBY DIGITAL (DVD VIDEO/DVD-RW only)

Selects the type of Dolby Digital signal.

D-PCM	Select this when the player is connected to an audio component lacking a built-in Dolby Digital decoder. You can select whether the signals conform to Dolby Surround (Pro Logic) or not by making adjustments to the "DOWNMIX" item in "AUDIO SETUP" (page 80).
DOLBY DIGITAL	Select this when the player is connected to an audio component with a built-in Dolby Digital decoder.

◆ MPEG (DVD VIDEO/DVD-RW only)

Selects the type of MPEG audio signal.

PCM	Select this when the player is connected to an audio component without a built-in MPEG decoder. If you play MPEG audio sound tracks, the player outputs stereo signals via the DIGITAL OUT (OPTICAL or COAXIAL) jack.
MPEG	Select this when the player is connected to an audio component with a built-in MPEG decoder.

◆ DTS (DVD VIDEO/DTS-CD)

Selects the type of DTS signal.

D-PCM	Select this when the player is connected to an audio component without a built-in DTS decoder.
DTS	Select this when the player is connected to an audio component with a built-in DTS decoder.

Note

When "DTS" is set to "DTS" and a DTS-CD is played back, audio signals are not output from the AUDIO OUT L/R 1/2 jacks. When a component that cannot receive the stream signal of DTS is connected to the HDMI OUT jack, audio signals are not output from the HDMI OUT jack.

◆ 48 kHz/96 kHz PCM (DVD VIDEO only)

Selects the sampling frequency of the audio signal.

48kHz/16bit	The audio signals of DVD VIDEOs are always converted to 48 kHz/16 bit.
96kHz/24bit	All types of signals including 96 kHz/24 bit are output in their original format. However, if the signal is encrypted for copyright protection purposes, the signal is only output as 48kHz/16bit.

Notes

- The analog audio signals from the AUDIO OUT L/R 1/2 jacks and 5.1CH OUTPUT jacks are not affected by this setting.
- If the HDMI OUT jack is connected to equipment not compatible with 96 kHz/24 bit signals, 48 kHz/16 bit PCM will be automatically output even when you select "96 kHz/24 bit."
- Super Audio CD audio signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.
- If you connect a component that does not conform to the selected audio signal, a loud noise (or no sound) will come out from the speakers, damaging your ears or speakers.
- When audio signals are output from the HDMI OUT jack/i.LINK S200 (AUDIO) jack, the settings of "DIGITAL OUT" (except ON/OFF setting) are available.

◆ AUDIO (HDMI)

Selects the type of audio signal output from the HDMI OUT jack.

AUTO	Normally, select this. Outputs audio signals according to the "DIGITAL OUT" settings (page 80).
PCM	Converts Dolby Digital, DTS, or 96 kHz/24 bit PCM signals to 48 kHz/16 bit PCM.

Note

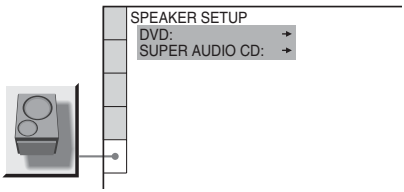
A loud noise (or no sound) will be output if you connect the player to a TV that is not compatible with DOLBY DIGITAL/DTS signals and "AUTO" is selected. In this case, select "PCM."

Settings for the Speakers (SPEAKER SETUP)

To obtain the best possible surround sound, set the size of the speakers you have connected and their distance from your listening position. Then use the test tone to adjust the volume of the speakers to the same level.
This setting is effective when connecting the speaker with 5.1 CH OUTPUT jacks (page 25).

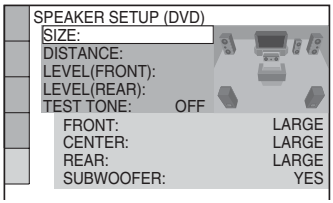
You can create two different Speaker Setup settings, one for Super Audio CDs and one for all other types of discs. When you use the i.LINK connection, it is not available.

1 Follow steps 1 through 4 of "Using the Setup Display" (page 74) to select "SPEAKER SETUP" in the Setup display.



2 Select "DVD" or "SUPER AUDIO CD" using ↑/↓, then press ENTER.

Example: when "DVD" is selected.



3 Set the following items in the order that they are explained below.

The default settings are underlined.

To return to the default setting

Select the item, then press CLEAR. Note that only the "SIZE" setting does not return to the default setting.

◆ SIZE

Selects the size of the speakers.

• FRONT

LARGE	Normally select this position.
SMALL	Select this when the speaker cannot reproduce adequate bass frequencies.

• CENTER

LARGE	Normally select this position.
SMALL	Select this when the speaker cannot reproduce adequate bass frequencies.
NONE	Select this if you do not connect a centre speaker.

• REAR

LARGE	Normally select this position. Select according to the rear speakers position.
SMALL	Select this when the sound distorts or the surround effects are difficult to hear. Select according to the rear speaker position.
NONE	Select this if you do not connect rear speakers.

• SUBWOOFER

YES	Select this if you connect a subwoofer to output the LFE (low frequency effect) signals from the subwoofer.
NONE	Select this if you do not connect a subwoofer.

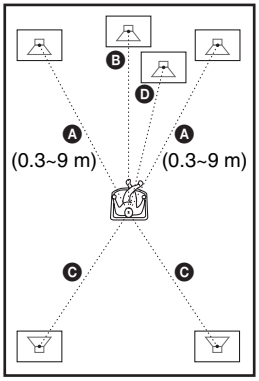
Notes

- If your speakers are too small to reproduce low bass frequencies, utilize a subwoofer for low frequency sound. When you set the speaker settings to "SMALL," the bass redirection circuitry will be activated and the bass frequencies for the speakers are output from the subwoofer.
- Even if there are fewer than 6 speakers connected, the player distributes the audio signal components to the front speakers.
- When you set the front speaker setting to "SMALL," you cannot set the centre and rear speaker settings to "LARGE," and the subwoofer setting to "NONE."

◆ DISTANCE

Sets the distance from your listening position to the speakers.

Set the distance to your front speakers in "FRONT" first (Ⓐ). Then adjust the values in "CENTER" (centre speaker Ⓑ), "REAR" (rear speaker Ⓒ), and "SUBWOOFER" (Ⓓ) to reflect the actual distance to your centre speaker, rear speakers, and subwoofer.



Be sure to change the value in the Setup Display each time you move the speakers. Start from the front speaker. The default adjustments are in parentheses.

FRONT (3 m)	Set this between 0.3 and 9 m in 0.3 m increments.
CENTER (3 m)	Set this within –1.5 m of the "FRONT" setting in 0.3 m increments. For example, if "FRONT" is set to 6 m, "CENTER" can be set between 4.5 and 6 m.
REAR (3 m)	Set this within –4.5 m of the "FRONT" setting in 0.3 m increments. For example, if "FRONT" is set to 6 m, "REAR" can be set between 1.5 and 6 m.
SUB WOOFER (3 m)	Set this within –4.5 m of the "FRONT" setting in 0.3 m increments. For example, if "FRONT" is set to 6 m, "SUB WOOFER" can be set between 1.5 and 6 m.

Notes

- If each of the front or rear speakers are not placed at an equal distance from your listening position, set the distance according to the closest speaker.
- The minimum distance is 0.3 m.

◆ LEVEL (FRONT)

Varies the level of the front speakers. Be sure to set "TEST TONE" to "ON" for easy adjustment.

The default adjustments are in parentheses.

L (0 dB)	Set this between –6 dB and 0 dB in 0.5 dB increments.
R (0 dB)	Set this between –6 dB and 0 dB in 0.5 dB increments.
CENTER (0 dB)	Set this between –12 dB and 0 dB in 0.5 dB increments.
SUBWOOFER (0 dB)	Set this between –10 dB and 0 dB in 0.5 dB increments.

→ continued

◆ LEVEL (REAR)

Varies the level of the rear speakers. Be sure to set “TEST TONE” to “ON” for easy adjustment.
The default adjustments are in parentheses.

L (0 dB)	Set this between –12 dB and 0 dB in 0.5 dB increments.
R (0 dB)	Set this between –12 dB and 0 dB in 0.5 dB increments.

To adjust the volume of all the speakers at one time

Use the amplifier’s (receiver’s) volume control.

◆ TEST TONE

The speakers will emit a test tone. Use this when you use the 5.1CH OUTPUT jacks and adjust “LEVEL.”

OFF	The test tone is not emitted from the speakers.
ON	The test tone is emitted from each speaker in sequence.

Adjusting the speaker volume and level

1 Select “SPEAKER SETUP” in the Setup Display.

2 Select “TEST TONE” and set to “ON.”
You will hear the test tone from each speaker in sequence.

3 From your listening position, select “LEVEL (FRONT)” or “LEVEL (REAR)” and adjust the value using ↑/↓.

4 Select “TEST TONE” and set to “OFF” to turn off the test tone.

Note

The test tone signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT/ i.LINK S200 (AUDIO) jack.

Troubleshooting

If you experience any of the following difficulties while using the player, use this troubleshooting guide to help remedy the problem before requesting repairs. Should any problem persist, reset the player (page 75) or reconnect the mains lead. If the problem still persists, consult your nearest Sony dealer.

Power

The power is not turned on.

➡ Check that the mains lead is connected securely.

Picture

There is no picture/picture noise appears.

➡ Re-connect the connecting cord securely.
➡ The connecting cord is damaged.
➡ Check the connection to your TV (page 17) and switch the input selector on your TV so that the signal from the player appears on the TV screen.
➡ The disc is dirty or flawed.
➡ If the picture output from your player goes through your VCR to get to your TV or if you are connected to a combination TV/VIDEO player, the copy-protection signal applied to some DVD programmes could affect picture quality. If you still experience problems even when you connect your player directly to your TV, try connecting your player to your TV's S VIDEO input (page 17).
➡ You have set "COMPONENT OUT" in "SCREEN SETUP" to "PROGRESSIVE" even though your TV cannot accept the signal in progressive format. In this case, set "COMPONENT OUT" to "INTERLACE."
➡ Even if your TV is compatible with progressive format 525/625p signals, the image may be affected when you set "COMPONENT OUT" to "PROGRESSIVE." In this case, set "COMPONENT OUT" to "INTERLACE."
➡ The VIDEO OFF function takes effect (page 36).
➡ The player is connected to an input device that is not HDCP compliant (the HDMI indicator on the front panel does not light up). See page 18.
➡ If the HDMI OUT jack is used for video output, changing the "HDMI RESOLUTION" setting in "SCREEN SETUP" may solve the problem (page 76). Connect the TV and the player using a video jack other than the HDMI OUT jack, and switch the TV's input to the connected video input so that you can see the on-screen displays. Change the "HDMI RESOLUTION" setting in "SCREEN SETUP," and switch the TV's input back to HDMI. If the picture still does not appear, repeat the steps and try other options.
➡ You have set "LINE" in "SCREEN SETUP" to "RGB." When you select "RGB," you cannot use the COMPONENT VIDEO OUT jacks.

The picture does not fill the screen, even though the aspect ratio is set in "TV TYPE" under "SCREEN SET UP."

➡ The aspect ratio of the disc is fixed on your DVD.

Sound

There is no sound.

➡ Re-connect the connecting cord securely.
➡ The connecting cord is damaged.
➡ The player is connected to the wrong input jack on the amplifier (receiver) (page 23, 24, 25).
➡ The amplifier (receiver) input is not correctly set.
➡ The player is in pause mode or in Slow-motion Play mode.
➡ The player is in fast forward or fast reverse mode.
➡ When the i.LINK indicator lights up, audio signals are output only from the i.LINK S200 (AUDIO) jack.
➡ If the audio signal does not come through the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack, check the audio settings (page 79).
➡ Super Audio CD audio signals are not output from the DIGITAL OUT (COAXIAL or OPTICAL)/ HDMI OUT jack.

→ continued

➡ The equipment connected to the HDMI OUT jack does not conform to the audio signal format, in this case set "AUDIO(HDMI)" in "AUDIO SETUP" to "PCM" (page 81).
➡ Set "AUDIO DRC" to "STANDARD" (page 80).

No sound is output from the HDMI OUT jack

➡ The HDMI OUT jack is connected to a DVI device (DVI jacks do not accept audio signals).
➡ The HDMI OUT jack does not output Super Audio CD sound.
➡ The VIDEO OFF function is set to on.
➡ Set "AUDIO (HDMI)" in "AUDIO SETUP" to "PCM" (page 81).
➡ When the i.LINK indicator lights up, audio signals are output only from the i.LINK S200 (AUDIO) jack.

Sound distortion occurs.

➡ Set "AUDIO ATT" in "AUDIO SETUP" to "ON" (page 80).

The volume is low.

➡ Set "AUDIO ATT" in "AUDIO SETUP" to "OFF" (page 80).

The surround effect is difficult to hear when playing a Dolby Digital, or DTS sound track.

➡ Check the speaker connections and settings (page 25, 32, 80).
➡ 5.1 channel sound is not recorded on the disc being played.

The sound only comes from the centre speaker.

➡ Depending on the disc, the sound may come from the centre speaker only.

The settings of "SPEAKER SETUP" are not usable.

➡ The settings are not usable when you use the i.LINK connection.

Operation

The remote does not function.

➡ The batteries in the remote are weak.
➡ There are obstacles between the remote and the player.
➡ The distance between the remote and the player is too far.
➡ The remote is not pointed at the remote sensor on the player.
➡ The COMMAND MODE switch setting on the remote does not match the setting on the player (page 16).

The disc does not play.

➡ The disc is skewed.
➡ The player cannot play certain discs (page 6).
➡ The region code on the DVD does not match the player.
➡ Moisture has condensed inside the player (page 3).
➡ The player cannot play a recorded disc that is not correctly finalized (page 7).

The MP3 audio track cannot be played (page 42).

➡ The DATA CD is not recorded in an MP3 format that conforms to ISO9660 Level 1/ Level 2 or Joliet.
➡ The MP3 audio track does not have the extension ".MP3."
➡ The sampling frequencies of MP3 files are other than 44.1 kHz and 48 kHz.
➡ The data is not formatted in MP3 even though it has the extension ".MP3."
➡ The data is not MPEG1 Audio Layer 3 data.
➡ The player cannot play audio tracks in MP3PRO format.

The JPEG image file cannot be played (page 61).

➡ The DATA CD is not recorded in a JPEG format that conforms to ISO 9660 Level 1/ Level 2, or Joliet.
➡ The file has an extension other than ".JPEG" or ".JPG."
➡ The image is larger than 5760 (width) × 3840 (height) in normal mode, or more than 8 M pixels in progressive JPEG. (Some progressive JPEG files cannot be displayed even if the file size is within this specified capacity.)
➡ The image does not fit the screen (the image is reduced).
➡ "MODE (MP3, JPEG)" is set to "AUDIO (MP3)" (page 65).

The title of the MP3 audio album or track is not correctly displayed.

➡ The player can only display numbers and alphabet. Other characters are displayed as "*."

➡ If the MP3 audio track being played back has an ID3 tag, the ID3 tag information is displayed as the track name.

The disc does not start playing from the beginning.

➡ Programme Play, Shuffle Play, Repeat Play, or A-B Repeat Play has been selected (page 42).

➡ Resume play has taken effect (page 38).

The player starts playing the disc automatically.

➡ The disc features an auto playback function.

➡ "AUTO PLAY" in "CUSTOM SETUP" is set to "ON" (page 78).

Playback stops automatically.

➡ While playing discs with an auto pause signal, the player stops playback at the auto pause signal.

Some functions such as Stop, Search, Slow-motion Play, Repeat Play, Shuffle Play, or Programme Play cannot be performed.

➡ Depending on the disc, you may not be able to do some of the operations above. Refer to the operating manual that comes with the disc.

The language for the sound track cannot be changed.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 39).

➡ Multilingual tracks are not recorded on the DVD being played.

➡ The DVD prohibits the changing of the language for the sound track.

The subtitle language cannot be changed or turned off.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 39).

➡ Multilingual subtitles are not recorded on the DVD being played.

➡ The DVD prohibits the changing of subtitles.

The angles cannot be changed.

➡ Try using the DVD's menu instead of the direct selection button on the remote (page 39).

➡ Multi-angles are not recorded on the DVD being played.

➡ The angle can only be changed when the "ANGLE" indicator lights up on the front panel display (page 9).

➡ The DVD prohibits changing of the angles.

The player does not operate properly.

➡ When static electricity, etc., causes the player to operate abnormally, unplug the player.

The disc tray does not open and "LOCKED" appears on the front panel display.

➡ Child Lock is set (page 37).

The disc tray does not open and "TRAY LOCKED" appears on the front panel display.

➡ Contact your Sony dealer or local authorized Sony service facility.

"Data error" appears on the TV screen when playing a DATA CD.

➡ The MP3 audio track/JPEG image file you want to play is broken.

➡ The data is not MPEG1 Audio Layer 3 data.

➡ The JPEG image file format does not conform to DCF (page 61).

➡ The JPEG image file has the extension ".JPG" or ".JPEG," but is not in JPEG format.

The setting of TV input is changed automatically.

➡ The setting of TV input may be changed automatically when you set the VIDEO OFF function to on.

The setting of "AUDIO DRC" cannot be changed.

➡ "DOLBY DIGITAL" in "DIGITAL OUT" is set to "D-PCM" (page 81).

→ continued

The front panel display is dark or turned off.

➡ The DIMMER function is set to on (page 10).

Error messages

BUSFULL

Since the i.LINK bus is busy with other connected component's output signals, audio signals cannot be output.

➡ Stop sending output signals from connected components (Turn off the component or press the STOP button, etc.). Turn off the player, then turn on the player and start playback again.

LOOP CONNECT

i.LINK connection is caught in a loop.

➡ Check the connection (page 27).

Glossary

Chapter (page 9, 13, 48)

Sections of a picture or a music feature that are smaller than titles. A title is composed of several chapters. Depending on the disc, no chapters may be recorded.

Dolby Digital (page 25, 81)

Digital audio compression technology developed by Dolby Laboratories. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same discrete channels of high quality digital audio found in "Dolby Digital" theater surround sound systems. Good channel separation is realized because all of the channel data are recorded discretely and little deterioration is realized because all channel data processing is digital.

Dolby Surround (Pro Logic) (page 24, 80)

Audio signal processing technology that Dolby Laboratories developed for surround sound. When the input signal contains a surround component, the Pro Logic process outputs the front, centre and rear signals. The rear channel is monaural.

DTS (page 25, 81)

Digital audio compression technology that Digital Theater Systems, Inc. developed. This technology conforms to multi-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. DTS provides discrete channels of high quality digital audio.
Good channel separation is realized because all of the channel data is recorded discretely and little deterioration is realized because all channel data processing is digital.

DVD VIDEO (page 6)

A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.
The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte), which is 7 times that of a CD. The data capacity of a double-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and double-layer and double-sided DVD is 17 GB.
The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 (average) of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing you to enjoy a more real audio presence.
Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

DVD-RW (page 6, 39)

A DVD-RW is a recordable and rewritable disc that is the same size as the DVD VIDEO. The DVD-RW has two different modes: VR mode and Video mode.
DVD-RWs created in Video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW (page 6)

A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

Film based software, Video based software

DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theaters. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

HDMI (High-Definition Multimedia Interface)

HDMI is an interface that supports both video and audio on a single digital connection. The HDMI connection carries standard to high definition video signals and multi-channel audio signals to AV components such as HDMI equipped TVs, in digital form without degradation.
Since the video signals are compatible with the current DVI (Digital Visual Interface) format, HDMI jacks can be connected to DVI jacks by way of an HDMI-DVI converter cord. The HDMI specification supports HDCP (High-bandwidth Digital Contents Protection), a copy protection technology that incorporates coding technology for digital video signals.

ID3 tag

ID3 tag refers to the text information (track name/album name/artist name, etc.) that comes with an MP3 audio track.

Index (CD/Super Audio CD)/Video Index (VIDEO CD) (page 9, 13, 48)

A number that divides a track into sections to easily locate the point you want on a CD, Super Audio CD, or VIDEO CD. Depending on the disc, no index may be recorded.

Normal (Interlace) format (page 77)

Normal (Interlace) format shows every other line of an image as a single “field” and is the standard method for displaying images on television. The even number field shows the even numbered lines of an image, and the odd numbered field shows the odd numbered lines of an image.

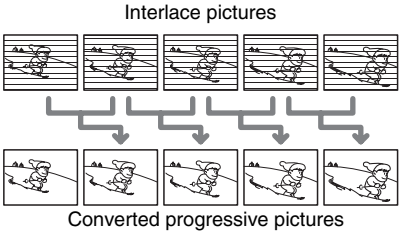
→ continued

Progressive conversion method (page 77)

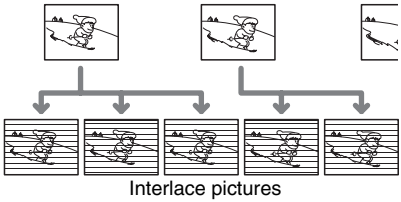
• Video based software conversion
Video shows an image by alternately displaying every other line of an image (field) at 30 frames (60 fields) per second (Interlace format).

The Interlace format displays 30 frames (60 fields) per second by displaying every other line of the image, causing scanning lines to appear across the image. Since only half of the image is shown at once, the amount of information contained in an image is limited.

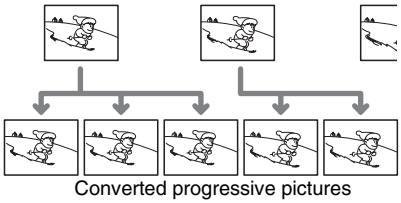
The Progressive format displays 60 entire frames per seconds. The player accomplishes this by converting each field into a frame by using either a field-based conversion method or a frame-based conversion method. The appropriate method is automatically selected by the player according to the movement of the images on the screen. If the movement on the screen is slow, the frame-based conversion method borrows adjacent frame information to fill in the missing information. If the movement on the screen is rapid, the field-based conversion method creates the missing information by predicting the movement of the images on the screen from field to field. The end result is an image that is higher in quality when compared to the Interlace format.



• Film based software conversion
Film shows an image by displaying an entire image at 24 frames per second. When you watch a film on television, the television displays every other line of the frame as a field, thus reducing information level and the clarity of the film image.



This player solves this problem by increasing the speed at which the frames are displayed, consecutively showing 3 identical frames followed by 2 identical frames in the time that it normally takes to show 2 consecutive frames. The end result is that the 24 frames per second are increased to 60 frames per second, which is the speed at which Progressive video signals are shown.



This not only allows film to be shown in a frame based format, it also increases the clarity and sharpness which is unique to Progressive format images.

Progressive format (page 77)

Compared to the Normal (Interlace) format that alternately shows every other line of an image (field) to create one frame, the Progressive format shows the entire image at once as a single frame. This means that while the Normal (Interlace) format can show 25 or 30 frames (50-60 fields) in one second, the Progressive format can show 50-60 frames in one second. The overall picture quality increases and still images, text, and horizontal lines appear sharper. This player is compatible with the 480 (525) or 576 (625) progressive format.

Scene (page 9, 13, 48)

On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures and still pictures are divided into sections called “scenes.”

Super Audio CD (page 6)

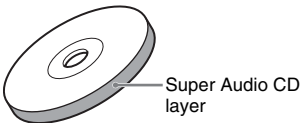
Super Audio CD is a new high-quality audio disc standard where music is recorded in the DSD (Direct Stream Digital) format (conventional CDs are recorded in the PCM format). The DSD format, using a sampling frequency 64 times higher than that of a conventional CD, and with 1-bit quantization, achieves both a wide frequency range and a wide dynamic range across the audible frequency range, and so provides music reproduction extremely faithful to the original sound.

Types of Super Audio CDs

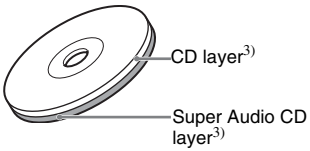
There are two types of discs, depending on the Super Audio CD layer and CD layer combination.

- Super Audio CD layer: A high-density signal layer for Super Audio CD
- CD layer[1)]: A layer that is readable by a conventional CD player

Single layer disc
(a disc with a single Super Audio CD layer)

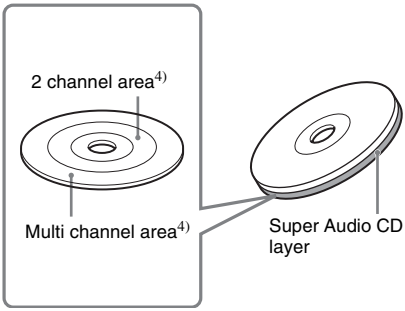


Hybrid disc[2)]
(a disc with an Super Audio CD layer and a CD layer)



A Super Audio CD layer consists of the 2 channel area or the multi-channel area.

- 2 channel area: An area in which 2 channel stereo tracks are recorded
- Multi-channel area: An area in which multi-channel (up to 5.1 channels) tracks are recorded



1) You can play the CD layer on a conventional CD player.
2) Since both layers are on one side, it is not necessary to turn the disc over.
3) To select a layer, see “Selecting a Playback Area for a Super Audio CD” (page 40).
4) To select an area, see “Selecting a Playback Area for a Super Audio CD” (page 40).

Title (page 9, 13, 48)

The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track (page 9, 13, 48)

Sections of a picture or a music feature on a VIDEO CD, Super Audio CD, CD, or DATA CD (MP3) (the length of a song).

Specifications

System

Laser: Semiconductor laser
λ = 780 nm for CD
λ = 650 nm for Super Audio CD and DVD
Emission duration: continuous
Signal format system: PAL(NTSC)

Audio characteristics

Frequency response: DVD VIDEO (PCM 96 kHz): 2 Hz to 44 kHz (44 kHz: –2 dB ±1 dB), Super Audio CD: 2 Hz to 100 kHz (50 kHz: –3 dB ±1 dB), CD: 2 Hz to 20 kHz (±0.5 dB)
Signal-to-noise ratio (S/N ratio): 112 dB
Harmonic distortion: Super Audio CD: 0.0008 %, CD: 0.0015 %
Dynamic range: DVD VIDEO: 115 dB, Super Audio CD: 108 dB, CD: 100 dB
Wow and flutter: Less than detected value (±0.001% W PEAK)

Outputs

(**Jack name:** Jack type/Output level/Load impedance)
AUDIO OUT L/R 1/2: Phono jack/2 Vrms/10 kilohms
DIGITAL OUT (OPTICAL): Optical output jack/–18 dBm (wave length: 660 nm)
DIGITAL OUT (COAXIAL): Phono jack/0.5 Vp-p/75 ohms
HDMI OUT: TypeA (19 pin)
5.1CH OUTPUT: Phono jack/2 Vrms/10 kilohms
COMPONENT VIDEO OUT(Y, P_B/C_B, P_R/C_R):
Phono jack/Y: 1.0 Vp-p/P_B/C_B, P_R/C_R: interlace[1)] = 0.648 Vp-p, progressive or interlace[2)] = 0.7 Vp-p/75 ohms
[1)] BLACK LEVEL (COMPONENT OUT) is ON
[2)] BLACK LEVEL (COMPONENT OUT) is OFF
VIDEO OUT: Phono jack/1.0 Vp-p/75 ohms
S VIDEO OUT: 4-pin mini DIN/Y: 1.0 Vp-p/C: 0.3 Vp-p (PAL), 0.286 Vp-p (NTSC) /75 ohms
i.LINK S200 (AUDIO) 1/2: 4-pin
Maximum data transmission speed: 200 Mbps

General

Power requirements:
230 V AC, 50/60 Hz
Power consumption: 36 W
0.1 W (at the Power Saving Mode)
Dimensions (approx.): 430 × 125 × 390 mm (width/height/depth) incl. projecting parts
Mass (approx.): 10.5 kg
Operating temperature: 5 °C to 35 °C
Operating humidity: 25 % to 80 %

Supplied accessories

See page 15.

Specifications and design are subject to change without notice.

Language Code List

For details, see pages 54, 56, 75.
The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1183	Irish	1347	Maori	1507	Samoan
1028	Abkhazian	1186	Scots Gaelic	1349	Macedonian	1508	Shona
1032	Afrikaans	1194	Galician	1350	Malayalam	1509	Somali
1039	Amharic	1196	Guarani	1352	Mongolian	1511	Albanian
1044	Arabic	1203	Gujarati	1353	Moldavian	1512	Serbian
1045	Assamese	1209	Hausa	1356	Marathi	1513	Siswati
1051	Aymara	1217	Hindi	1357	Malay	1514	Sesotho
1052	Azerbaijani	1226	Croatian	1358	Maltese	1515	Sundanese
1053	Bashkir	1229	Hungarian	1363	Burmese	1516	Swedish
1057	Byelorussian	1233	Armenian	1365	Nauru	1517	Swahili
1059	Bulgarian	1235	Interlingua	1369	Nepali	1521	Tamil
1060	Bihari	1239	Interlingue	1376	Dutch	1525	Telugu
1061	Bislama	1245	Inupiak	1379	Norwegian	1527	Tajik
1066	Bengali; Bangla	1248	Indonesian	1393	Occitan	1528	Thai
		1253	Icelandic	1403	(Afan)Oromo	1529	Tigrinya
1067	Tibetan	1254	Italian	1408	Oriya	1531	Turkmen
1070	Breton	1257	Hebrew	1417	Punjabi	1532	Tagalog
1079	Catalan	1261	Japanese	1428	Polish	1534	Setswana
1093	Corsican	1269	Yiddish	1435	Pashto; Pushto	1535	Tonga
1097	Czech	1283	Javanese			1538	Turkish
1103	Welsh	1287	Georgian	1436	Portuguese	1539	Tsonga
1105	Danish	1297	Kazakh	1463	Quechua	1540	Tatar
1109	German	1298	Greenlandic	1481	Rhaeto-Romance	1543	Twi
1130	Bhutani	1299	Cambodian			1557	Ukrainian
1142	Greek	1300	Kannada	1482	Kirundi	1564	Urdu
1144	English	1301	Korean	1483	Romanian	1572	Uzbek
1145	Esperanto	1305	Kashmiri	1489	Russian	1581	Vietnamese
1149	Spanish	1307	Kurdish	1491	Kinyarwanda	1587	Volapük
1150	Estonian	1311	Kirghiz	1495	Sanskrit	1613	Wolof
1151	Basque	1313	Latin	1498	Sindhi	1632	Xhosa
1157	Persian	1326	Lingala	1501	Sangho	1665	Yoruba
1165	Finnish	1327	Laothian	1502	Serbo-Croatian	1684	Chinese
1166	Fiji	1332	Lithuanian			1697	Zulu
1171	Faroese	1334	Latvian; Lettish	1503	Singhalese		
1174	French			1505	Slovak		
1181	Frisian	1345	Malagasy	1506	Slovenian	1703	Not specified

Parental Control Area Code List

For details, see page 69.

Code	Area	Code	Area	Code	Area	Code	Area
2044	Argentina	2115	Denmark	2304	Korea	2436	Portugal
2047	Australia	2165	Finland	2363	Malaysia	2489	Russia
2046	Austria	2174	France	2362	Mexico	2501	Singapore
2057	Belgium	2109	Germany	2376	Netherlands	2149	Spain
2070	Brazil	2248	India	2390	New Zealand	2499	Sweden
2079	Canada	2238	Indonesia	2379	Norway	2086	Switzerland
2090	Chile	2254	Italy	2427	Pakistan	2528	Thailand
2092	China	2276	Japan	2424	Philippines	2184	United Kingdom

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Sony Corporation Printed in Malaysia

http://www.sony.net/